

# Woodam Chung

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,221  
citations

471061

17  
h-index

395343

33  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1209  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiobjective record-to-record travel metaheuristic method for solving forest supply chain management problems with economic and environmental objectives. <i>Natural Resource Modelling</i> , 2021, 34, .	0.8	8
2	Linking Federal Forest Restoration with Wood Utilization: Modeling Biomass Prices and Analyzing Forest Restoration Costs in the Northern Sierra Nevada. <i>Energies</i> , 2021, 14, 2696.	1.6	3
3	The economic reality of the forest and fuel management deficit on a fire prone western US national forest. <i>Journal of Environmental Management</i> , 2021, 293, 112825.	3.8	14
4	Evaluation of Ground Plane Detection for Estimating Breast Height in Stereo Images. <i>Forest Science</i> , 2020, 66, 612-622.	0.5	5
5	Development and Benefits of Winch-Assist Harvesting. <i>Current Forestry Reports</i> , 2020, 6, 201-209.	3.4	19
6	Insight into the Productivity, Cost and Soil Impacts of Cable-assisted Harvester-forwarder Thinning in Western Oregon. <i>Forest Science</i> , 2020, 66, 82-96.	0.5	6
7	Partitioning and solving large-scale tactical harvest scheduling problems for industrial plantation forests. <i>Canadian Journal of Forest Research</i> , 2020, 50, 811-818.	0.8	5
8	Economic and Environmental Optimization of the Forest Supply Chain for Timber and Bioenergy Production from Beetle-Killed Forests in Northern Colorado. <i>Forests</i> , 2019, 10, 689.	0.9	12
9	An Approach for Modeling and Quantifying Traffic-Induced Processes and Changes in Forest Road Aggregate Particle-Size Distributions. <i>Forests</i> , 2019, 10, 769.	0.9	4
10	Sliding Stability of Cable-Assisted Tracked Equipment on Steep Slopes. <i>Forest Science</i> , 2019, 65, 304-311.	0.5	6
11	Safety in steep slope logging operations. <i>Journal of Agromedicine</i> , 2019, 24, 138-145.	0.9	10
12	Sustainable Forest Operations (SFO): A new paradigm in a changing world and climate. <i>Science of the Total Environment</i> , 2018, 634, 1385-1397.	3.9	147
13	Productivity and Costs of Two Beetle-Kill Salvage Harvesting Methods in Northern Colorado. <i>Forests</i> , 2018, 9, 572.	0.9	13
14	Discrete-Event Simulation of Ground-Based Timber Harvesting Operations. <i>Forests</i> , 2018, 9, 683.	0.9	15
15	Optimizing Biomass Feedstock Logistics for Forest Residue Processing and Transportation on a Tree-Shaped Road Network. <i>Forests</i> , 2018, 9, 121.	0.9	11
16	New Geospatial Approaches for Efficiently Mapping Forest Biomass Logistics at High Resolution over Large Areas. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 156.	1.4	9
17	Estimating Aboveground Tree Biomass for Beetle-Killed Lodgepole Pine in the Rocky Mountains of Northern Colorado. <i>Forest Science</i> , 2017, 63, 413-419.	0.5	6
18	Theoretical Stability and Traction of Steep Slope Tethered Feller-Bunchers. <i>Forest Science</i> , 2017, 63, 192-200.	0.5	19

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19	Forest fire risk assessment using point process modelling of fire occurrence and Monte Carlo fire simulation. <i>International Journal of Wildland Fire</i> , 2017, 26, 789.	1.0	15
20	Effect of Downed Trees on Harvesting Productivity and Costs in Beetle-Killed Stands. <i>Forest Science</i> , 2017, 63, 596-605.	0.5	10
21	The Effect of Downed Trees on Harvesting Productivity and Costs in Beetle-Killed Stands. <i>Forest Science</i> , 2017, , .	0.5	1
22	Designing Skid-Trail Networks to Reduce Skidding Cost and Soil Disturbance for Ground-Based Timber Harvesting Operations. <i>Forest Science</i> , 2016, 62, 48-58.	0.5	20
23	A terrain-based method for selecting potential mountain ridge protection areas in South Korea. <i>Landscape Research</i> , 2016, 41, 906-921.	0.7	4
24	Carbon balance of forest stands, wood products and their utilization in South Korea. <i>Journal of Forest Research</i> , 2016, 21, 199-210.	0.7	3
25	Spatial and temporal quantification of forest residue volumes and delivered costs. <i>Canadian Journal of Forest Research</i> , 2016, 46, 832-843.	0.8	15
26	Exploring tree crown spacing and slope interaction effects on fire behavior with a physics-based fire model. <i>Forest Science and Technology</i> , 2016, 12, 167-175.	0.3	7
27	Optimizing Fuel Treatments to Reduce Wildland Fire Risk. <i>Current Forestry Reports</i> , 2015, 1, 44-51.	3.4	35
28	Financial Performance of a Mobile Pyrolysis System Used to Produce Biochar from Sawmill Residues. <i>Forest Products Journal</i> , 2015, 65, 189-197.	0.2	22
29	Landscape-Level Simulation of Weed Treatments to Evaluate Treatment Plan Options. <i>Invasive Plant Science and Management</i> , 2014, 7, 278-290.	0.5	2
30	Developing a computerized approach for optimizing individual tree removal to efficiently reduce crown fire potential. <i>Forest Ecology and Management</i> , 2013, 289, 219-233.	1.4	8
31	The financial feasibility of delivering forest treatment residues to bioenergy facilities over a range of diesel fuel and delivered biomass prices. <i>Biomass and Bioenergy</i> , 2013, 48, 171-180.	2.9	21
32	A Comparison of Producer Gas, Biochar, and Activated Carbon from Two Distributed Scale Thermochemical Conversion Systems Used to Process Forest Biomass. <i>Energies</i> , 2013, 6, 164-183.	1.6	65
33	Optimising fuel treatments over time and space. <i>International Journal of Wildland Fire</i> , 2013, 22, 1118.	1.0	31
34	Assessing the Potential for Log Sort Yards to Improve Financial Viability of Forest Restoration Treatments. <i>Forest Science</i> , 2012, 58, 641-651.	0.5	10
35	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.	1.4	20
36	A Productivity and Cost Comparison of Two Systems for Producing Biomass Fuel from Roadside Forest Treatment Residues. <i>Forest Products Journal</i> , 2012, 62, 222-233.	0.2	32

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37	Evaluating tree competition indices as predictors of basal area increment in western Montana forests. <i>Forest Ecology and Management</i> , 2011, 262, 1939-1949.	1.4	134
38	A Modeling Approach to Estimating Skidding Costs of Individual Trees for Thinning Operations. <i>Western Journal of Applied Forestry</i> , 2011, 26, 133-146.	0.5	12
39	ACCEL: Spreadsheet-Based Cost Estimation for Forest Road Construction. <i>Western Journal of Applied Forestry</i> , 2011, 26, 189-197.	0.5	6
40	The effects of site factors on herb species diversity in Kwangneung forest stands. <i>Forest Science and Technology</i> , 2011, 7, 1-7.	0.3	9
41	Forest treatment residues for thermal energy compared with disposal by onsite burning: Emissions and energy return. <i>Biomass and Bioenergy</i> , 2010, 34, 737-746.	2.9	61
42	Forest road network design using a trade-off analysis between skidding and road construction costs. <i>Canadian Journal of Forest Research</i> , 2008, 38, 439-448.	0.8	38
43	Applying ant colony optimization metaheuristic to solve forest transportation planning problems with side constraints. <i>Canadian Journal of Forest Research</i> , 2008, 38, 2896-2910.	0.8	22
44	Improved road network design models with the consideration of various link patterns and road design elements. <i>Canadian Journal of Forest Research</i> , 2007, 37, 2281-2298.	0.8	23
45	A computer approach to finding an optimal log landing location and analyzing influencing factors for ground-based timber harvesting. <i>Canadian Journal of Forest Research</i> , 2007, 37, 276-292.	0.8	35
46	Incorporating Soil Surface Erosion Prediction into Forest Road Alignment Optimization. <i>International Journal of Forest Engineering</i> , 2007, 18, 24-32.	0.4	3
47	Planning to Determine Low-Volume Road Standards, Long-Term Needs, and Environmental Risks and Trade-Offs. <i>Transportation Research Record</i> , 2007, 1989-1, 11-19.	1.0	1
48	Road and harvesting planning and operations. , 2006, , 83-99.		4
49	An Application of a Heuristic Network Algorithm to Cable Logging Layout Design. <i>International Journal of Forest Engineering</i> , 2004, 15, 11-24.	0.4	18
50	The key literature of, and trends in, forest-level management planning in North America, 1950â€“2001. <i>International Forestry Review</i> , 2004, 6, 40-50.	0.3	58
51	NETWORK 2000, a Program for Optimizing Large Fixed and Variable Cost Transportation Problems. <i>Managing Forest Ecosystems</i> , 2003, , 109-120.	0.4	14
52	Eight Heuristic Planning Techniques Applied to Three Increasingly Difficult Wildlife Planning Problems: A Summary. <i>Managing Forest Ecosystems</i> , 2003, , 249-257.	0.4	1
53	Eight heuristic planning techniques applied to three increasingly difficult wildlife planning problems. <i>Silva Fennica</i> , 2002, 36, .	0.5	147
54	Effects of Pre-Bunching Trees With a Tethered Feller-Buncher on Cable Logging Productivity and Costs: A Case Study in Southern Oregon. <i>Forest Science</i> , 0, , .	0.5	2