Woodam Chung

List of Publications by Year
in descending order

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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	Sustainable Forest Operations (SFO): A new paradigm in a changing world and climate. Science of the Total Environment, 2018, 634, 1385-1397.	3.9	147
2	Eight heuristic planning techniques applied to three increasingly difficult wildlife planning problems. Silva Fennica, 2002, 36, .	0.5	147
3	Evaluating tree competition indices as predictors of basal area increment in western Montana forests. Forest Ecology and Management, 2011, 262, 1939-1949.	1.4	134
4	A Comparison of Producer Gas, Biochar, and Activated Carbon from Two Distributed Scale Thermochemical Conversion Systems Used to Process Forest Biomass. Energies, 2013, 6, 164-183.	1.6	65
5	Forest treatment residues for thermal energy compared with disposal by onsite burning: Emissions and energy return. Biomass and Bioenergy, 2010, 34, 737-746.	2.9	61
6	The key literature of, and trends in, forest-level management planning in North America, 1950â€“2001. International Forestry Review, 2004, 6, 40-50.	0.3	58
7	Forest road network design using a trade-off analysis between skidding and road construction costs. Canadian Journal of Forest Research, 2008, 38, 439-448.	0.8	38
8	A computer approach to finding an optimal log landing location and analyzing influencing factors for ground-based timber harvesting. Canadian Journal of Forest Research, 2007, 37, 276-292.	0.8	35
9	Optimizing Fuel Treatments to Reduce Wildland Fire Risk. Current Forestry Reports, 2015, 1, 44-51.	3.4	35
10	A Productivity and Cost Comparison of Two Systems for Producing Biomass Fuel from Roadside Forest Treatment Residues. Forest Products Journal, 2012, 62, 222-233.	0.2	32
11	Optimising fuel treatments over time and space. International Journal of Wildland Fire, 2013, 22, 1118.	1.0	31
12	Improved road network design models with the consideration of various link patterns and road design elements. Canadian Journal of Forest Research, 2007, 37, 2281-2298.	0.8	23
13	Applying ant colony optimization metaheuristic to solve forest transportation planning problems with side constraints. Canadian Journal of Forest Research, 2008, 38, 2896-2910.	0.8	22
14	Financial Performance of a Mobile Pyrolysis System Used to Produce Biochar from Sawmill Residues. Forest Products Journal, 2015, 65, 189-197.	0.2	22
15	The financial feasibility of delivering forest treatment residues to bioenergy facilities over a range of diesel fuel and delivered biomass prices. Biomass and Bioenergy, 2013, 48, 171-180.	2.9	21
16	Modeling tree-level fuel connectivity to evaluate the effectiveness of thinning treatments for reducing crown fire potential. Forest Ecology and Management, 2012, 264, 134-149.	1.4	20
17	Designing Skid-Trail Networks to Reduce Skidding Cost and Soil Disturbance for Ground-Based Timber Harvesting Operations. Forest Science, 2016, 62, 48-58.	0.5	20
18	Theoretical Stability and Traction of Steep Slope Tethered Feller-Bunchers. Forest Science, 2017, 63, 192-200.	0.5	19

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19	Development and Benefits of Winch-Assist Harvesting. Current Forestry Reports, 2020, 6, 201-209.	3.4	19
20	An Application of a Heuristic Network Algorithm to Cable Logging Layout Design. International Journal of Forest Engineering, 2004, 15, 11-24.	0.4	18
21	Spatial and temporal quantification of forest residue volumes and delivered costs. Canadian Journal of Forest Research, 2016, 46, 832-843.	0.8	15
22	Forest fire risk assessment using point process modelling of fire occurrence and Monte Carlo fire simulation. International Journal of Wildland Fire, 2017, 26, 789.	1.0	15
23	Discrete-Event Simulation of Ground-Based Timber Harvesting Operations. Forests, 2018, 9, 683.	0.9	15
24	The economic reality of the forest and fuel management deficit on a fire prone western US national forest. Journal of Environmental Management, 2021, 293, 112825.	3.8	14
25	NETWORK 2000, a Program for Optimizing Large Fixed and Variable Cost Transportation Problems. Managing Forest Ecosystems, 2003, , 109-120.	0.4	14
26	Productivity and Costs of Two Beetle-Kill Salvage Harvesting Methods in Northern Colorado. Forests, 2018, 9, 572.	0.9	13
27	A Modeling Approach to Estimating Skidding Costs of Individual Trees for Thinning Operations. Western Journal of Applied Forestry, 2011, 26, 133-146.	0.5	12
28	Economic and Environmental Optimization of the Forest Supply Chain for Timber and Bioenergy Production from Beetle-Killed Forests in Northern Colorado. Forests, 2019, 10, 689.	0.9	12
29	Optimizing Biomass Feedstock Logistics for Forest Residue Processing and Transportation on a Tree-Shaped Road Network. Forests, 2018, 9, 121.	0.9	11
30	Assessing the Potential for Log Sort Yards to Improve Financial Viability of Forest Restoration Treatments. Forest Science, 2012, 58, 641-651.	0.5	10
31	Effect of Downed Trees on Harvesting Productivity and Costs in Beetle-Killed Stands. Forest Science, 2017, 63, 596-605.	0.5	10
32	Safety in steep slope logging operations. Journal of Agromedicine, 2019, 24, 138-145.	0.9	10
33	The effects of site factors on herb species diversity in Kwangneung forest stands. Forest Science and Technology, 2011, 7, 1-7.	0.3	9
34	New Geospatial Approaches for Efficiently Mapping Forest Biomass Logistics at High Resolution over Large Areas. ISPRS International Journal of Geo-Information, 2018, 7, 156.	1.4	9
35	Developing a computerized approach for optimizing individual tree removal to efficiently reduce crown fire potential. Forest Ecology and Management, 2013, 289, 219-233.	1.4	8
36	Multiobjective recordâ€toâ€record travel metaheuristic method for solving forest supply chain management problems with economic and environmental objectives. Natural Resource Modelling, 2021, 34, .	0.8	8

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37	Exploring tree crown spacing and slope interaction effects on fire behavior with a physics-based fire model. Forest Science and Technology, 2016, 12, 167-175.	0.3	7
38	ACCEL: Spreadsheet-Based Cost Estimation for Forest Road Construction. Western Journal of Applied Forestry, 2011, 26, 189-197.	0.5	6
39	Estimating Aboveground Tree Biomass for Beetle-Killed Lodgepole Pine in the Rocky Mountains of Northern Colorado. Forest Science, 2017, 63, 413-419.	0.5	6
40	Sliding Stability of Cable-Assisted Tracked Equipment on Steep Slopes. Forest Science, 2019, 65, 304-311.	0.5	6
41	Insight into the Productivity, Cost and Soil Impacts of Cable-assisted Harvester-forwarder Thinning in Western Oregon. Forest Science, 2020, 66, 82-96.	0.5	6
42	Evaluation of Ground Plane Detection for Estimating Breast Height in Stereo Images. Forest Science, 2020, 66, 612-622.	0.5	5
43	Partitioning and solving large-scale tactical harvest scheduling problems for industrial plantation forests. Canadian Journal of Forest Research, 2020, 50, 811-818.	0.8	5
44	A terrain-based method for selecting potential mountain ridge protection areas in South Korea. Landscape Research, 2016, 41, 906-921.	0.7	4
45	An Approach for Modeling and Quantifying Traffic-Induced Processes and Changes in Forest Road Aggregate Particle-Size Distributions. Forests, 2019, 10, 769.	0.9	4
46	Road and harvesting planning and operations. , 2006, , 83-99.		4
47	Incorporating Soil Surface Erosion Prediction into Forest Road Alignment Optimization. International Journal of Forest Engineering, 2007, 18, 24-32.	0.4	3
48	Carbon balance of forest stands, wood products and their utilization in South Korea. Journal of Forest Research, 2016, 21, 199-210.	0.7	3
49	Linking Federal Forest Restoration with Wood Utilization: Modeling Biomass Prices and Analyzing Forest Restoration Costs in the Northern Sierra Nevada. Energies, 2021, 14, 2696.	1.6	3
50	Landscape-Level Simulation of Weed Treatments to Evaluate Treatment Plan Options. Invasive Plant Science and Management, 2014, 7, 278-290.	0.5	2
51	Effects of Pre-Bunching Trees With a Tethered Feller-Buncher on Cable Logging Productivity and Costs: A Case Study in Southern Oregon. Forest Science, 0, , .	0.5	2
52	Planning to Determine Low-Volume Road Standards, Long-Term Needs, and Environmental Risks and Trade-Offs. Transportation Research Record, 2007, 1989-1, 11-19.	1.0	1
53	Eight Heuristic Planning Techniques Applied to Three Increasingly Difficult Wildlife Planning Problems: A Summary. Managing Forest Ecosystems, 2003, , 249-257.	0.4	1
54	The Effect of Downed Trees on Harvesting Productivity and Costs in Beetle-Killed Stands. Forest Science, 2017, , .	0.5	1