

# Petras RupÅijs

## List of Publications by Year in descending order

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31  
papers

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citations

840776

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	A Linkage among Tree Diameter, Height, Crown Base Height, and Crown Width 4-Variate Distribution and Their Growth Models: A 4-Variate Diffusion Process Approach. <i>Forests</i> , 2017, 8, 479.	2.1	16
2	New Insights into Tree Height Distribution Based on Mixed Effects Univariate Diffusion Processes. <i>PLoS ONE</i> , 2016, 11, e0168507.	2.5	16
3	Generalized fixed-effects and mixed-effects parameters height-diameter models with diffusion processes. <i>International Journal of Biomathematics</i> , 2015, 08, 1550060.	2.9	15
4	Height-diameter models with stochastic differential equations and mixed-effects parameters. <i>Journal of Forest Research</i> , 2015, 20, 9-17.	1.4	15
5	A new paradigm in modelling the evolution of a stand via the distribution of tree sizes. <i>Scientific Reports</i> , 2017, 7, 15875.	3.3	15
6	Stochastic Mixed-Effects Parameters Bertalanffy Process, with Applications to Tree Crown Width Modeling. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-10.	1.1	13
7	Modeling Dynamics of Structural Components of Forest Stands Based on Trivariate Stochastic Differential Equation. <i>Forests</i> , 2019, 10, 506.	2.1	13
8	Understanding the Evolution of Tree Size Diversity within the Multivariate Nonsymmetrical Diffusion Process and Information Measures. <i>Mathematics</i> , 2019, 7, 761.	2.2	13
9	Models for Tree Taper Form: The Gompertz and Vasicek Diffusion Processes Framework. <i>Symmetry</i> , 2020, 12, 80.	2.2	13
10	ANALYSIS OF HEIGHT CURVES BY STOCHASTIC DIFFERENTIAL EQUATIONS. <i>International Journal of Biomathematics</i> , 2012, 05, 1250045.	2.9	11
11	The use of copulas to practical estimation of multivariate stochastic differential equation mixed effects models. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	11
12	QUANTIFYING TREE DIAMETER DISTRIBUTIONS WITH ONE-DIMENSIONAL DIFFUSION PROCESSES. <i>Journal of Biological Systems</i> , 2010, 18, 205-221.	1.4	10
13	Evolution of the bivariate tree diameter and height distributions via the stand age: von Bertalanffy bivariate diffusion process approach. <i>Journal of Forest Research</i> , 2019, 24, 16-26.	1.4	10
14	A Multivariate Hybrid Stochastic Differential Equation Model for Whole-Stand Dynamics. <i>Mathematics</i> , 2020, 8, 2230.	2.2	8
15	Construction of Reducible Stochastic Differential Equation Systems for Tree Height-Diameter Connections. <i>Mathematics</i> , 2020, 8, 1363.	2.2	7
16	Influence of noise on decay predictions in standing trees. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	6
17	Stochastic Models to Qualify Stem Tapers. <i>Algorithms</i> , 2020, 13, 94.	2.1	6
18	Symmetric and Asymmetric Diffusions through Age-Varying Mixed-Species Stand Parameters. <i>Symmetry</i> , 2021, 13, 1457.	2.2	6

#	ARTICLE	IF	CITATIONS
19	Modeling perspectives of forest growth and yield: Framework of multivariate diffusion process. AIP Conference Proceedings, 2019, , .	0.4	5
20	Analysis of Longitudinal Forest Data on Individual-Tree and Whole-Stand Attributes Using a Stochastic Differential Equation Model. Forests, 2022, 13, 425.	2.1	5
21	METHOD FOR INCREASING AN ACCURACY OF DETECTING DECAY BY THE ARBOTOMÂ® 3-D TREE TOMOGRAPH ON PICEA ABIES (L.) H. KARST TREES DAMAGED BY HETEROBASIDION ANNOSUM (FR.) BREF. , 2015, , .		2
22	A 4-variate gompertz type diffusion model: Computational aspects. AIP Conference Proceedings, 2018, , .	0.4	1
23	A von Bertalanffy Bivariate Diffusion Model: Computational Aspects and Application. , 2018, , .		1
24	Dynamic programming method for deterministic discrete processes of general form. Lithuanian Mathematical Journal, 1978, 18, 531-536.	0.4	0
25	Dynamic programming for discrete-time stochastic systems of a general type. Lithuanian Mathematical Journal, 1979, 19, 270-276.	0.4	0
26	Control functions in discrete-time optimal control systems. Lithuanian Mathematical Journal, 1979, 19, 546-551.	0.4	0
27	B-measurable and continuous multivalued mappings. Lithuanian Mathematical Journal, 1986, 26, 361-366.	0.4	0
28	Multivariate stochastic mechanisms and information measures in population growth processes. AIP Conference Proceedings, 2021, , .	0.4	0
29	Modeling of stem taper evolution using stochastic differential equations. Journal of Physics: Conference Series, 2021, 1854, 012002.	0.4	0
30	The Further Development of Stem Taper and Volume Models Defined by Stochastic Differential Equations. Lecture Notes in Electrical Engineering, 2013, , 121-133.	0.4	0
31	HEIGHT-DIAMETER CURVE ESTIMATION AND PREDICTION WITH VASICEK MODEL. , 2013, , .		0