

Maria Castro

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

584
citations

14
h-index

23
g-index

48
ext. papers

665
ext. citations

3.4
avg, IF

4.28
L-index

#	Paper	IF	Citations
48	Fatigue and Healing of Asphalt Mixtures: Discriminate Analysis of Fatigue Curves. <i>Journal of Transportation Engineering</i> , 2006 , 132, 168-174		63
47	Sight distance analysis of highways using GIS tools. <i>Transportation Research Part C: Emerging Technologies</i> , 2011 , 19, 997-1005	8.4	50
46	Geometric modelling of highways using global positioning system (GPS) data and spline approximation. <i>Transportation Research Part C: Emerging Technologies</i> , 2006 , 14, 233-243	8.4	46
45	Estimation of asphalt concrete fatigue curves [A damage theory approach. <i>Construction and Building Materials</i> , 2008 , 22, 1232-1238	6.7	40
44	GIS-Based System for Sight Distance Analysis of Highways. <i>Journal of Computing in Civil Engineering</i> , 2014 , 28, 04014005	5	36
43	LIDAR-based roadway and roadside modelling for sight distance studies. <i>Survey Review</i> , 2016 , 48, 309-315	5.9	28
42	Automated GIS-Based System for Speed Estimation and Highway Safety Evaluation. <i>Journal of Computing in Civil Engineering</i> , 2008 , 22, 325-331	5	26
41	Operating Speed and Speed Differential for Highway Design Consistency. <i>Journal of Transportation Engineering</i> , 2011 , 137, 837-840		25
40	Using smartphones as a very low-cost tool for road inventories. <i>Transportation Research Part C: Emerging Technologies</i> , 2014 , 38, 136-145	8.4	23
39	Analysis of the temperature influence on flexible pavement deflection. <i>Construction and Building Materials</i> , 2011 , 25, 3530-3539	6.7	21
38	GIS Tools for Analyzing Accidents and Road Design: A Review. <i>Transportation Research Procedia</i> , 2016 , 18, 242-247	2.4	19
37	Highway safety analysis using geographic information systems. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , 2008 , 161, 91-97	0.5	16
36	Reliability-Based Analysis of Sight Distance Modelling for Traffic Safety. <i>Journal of Advanced Transportation</i> , 2017 , 2017, 1-12	1.9	15
35	Highway Geometric Design Consistency: Speed Models and Local or Global Assessment. <i>International Journal of Civil Engineering</i> , 2016 , 14, 347-355	1.9	15
34	Spatial analysis of geometric design consistency and road sight distance. <i>International Journal of Geographical Information Science</i> , 2015 , 29, 2061-2074	4.1	14
33	Sight Distance Studies on Roads: Influence of Digital Elevation Models and Roadside Elements. <i>Procedia, Social and Behavioral Sciences</i> , 2014 , 160, 449-458		12
32	Damage Based Model for Prediction of Asphalt Concrete Fatigue Curves. <i>Journal of Materials in Civil Engineering</i> , 2007 , 19, 700-702	3	12

31	Terrain Model Resolution Effect on Sight Distance on Roads. <i>Periodica Polytechnica: Civil Engineering</i> , 2015 , 59, 165-172	1.2	11
30	Structural design of asphalt pavement on concrete bridges. <i>Canadian Journal of Civil Engineering</i> , 2004 , 31, 695-702	1.3	11
29	A Method to Identify and Classify the Vertical Alignment of Existing Roads. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017 , 32, 952-963	8.4	9
28	Three-Dimensional Virtual Highway Model for Sight-Distance Evaluation of Highway Underpasses. <i>Journal of Surveying Engineering, - ASCE</i> , 2018 , 144, 05018003	1.3	8
27	Using Small Unmanned Aerial Vehicle in 3D Modeling of Highways with Tree-Covered Roadsides to Estimate Sight Distance. <i>Remote Sensing</i> , 2019 , 11, 2625	5	8
26	Highway design software as support of a project-based learning course. <i>Computer Applications in Engineering Education</i> , 2012 , 20, 468-473	1.6	7
25	Thermal Sensitivity and Fatigue Life of Gap-Graded Asphalt Mixes Incorporating Crumb Rubber from Tire Waste. <i>Transportation Research Record</i> , 2007 , 1998, 132-139	1.7	7
24	Development of a local operating speed model for consistency analysis integrating laser, GPS and GIS for measuring vehicles speed. <i>Baltic Journal of Road and Bridge Engineering</i> , 2013 , 8, 281-288	0.9	7
23	Evaluating Pedestrians Safety on Urban Intersections: A Visibility Analysis. <i>Sustainability</i> , 2019 , 11, 6630	3.6	7
22	Linear visco-elastic behavior of asphalt pavements: 3D-FE response models. <i>Construction and Building Materials</i> , 2017 , 136, 414-425	6.7	5
21	Effect of vehicle swiveling headlamps and highway geometric design on nighttime sight distance. <i>Mathematics and Computers in Simulation</i> , 2020 , 170, 32-50	3.3	5
20	Reliability-Based Safety Evaluation of Headlight Sight Distance Applied to Road Sag Curve Standards. <i>IEEE Access</i> , 2020 , 8, 43606-43617	3.5	4
19	Vehicle speed measurement: Cosine error correction. <i>Measurement: Journal of the International Measurement Confederation</i> , 2012 , 45, 2128-2134	4.6	4
18	Driver glare exposure with different vehicle frontlighting systems. <i>Journal of Safety Research</i> , 2021 , 76, 228-237	4	4
17	Spatial analysis of road crash frequency using Bayesian models with Integrated Nested Laplace Approximation (INLA). <i>Journal of Transportation Safety and Security</i> , 2020 , 1-23	1.7	3
16	A methodology to measure sight-hidden dips parameters. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014 , 52, 85-93	4.6	3
15	A comprehensive methodology for the analysis of highway sight distance 2017 , 193-200		3
14	Framework for 3D Point Cloud Modelling Aimed at Road Sight Distance Estimations. <i>Remote Sensing</i> , 2019 , 11, 2730	5	3

13	Suitability Testing of LiDAR Processing Software Aimed at 3-D Sight Distance Estimations. <i>Transportation Research Procedia</i> , 2018 , 33, 163-170	2.4	3
12	Addressing sight-distance-related safety effects of installing median barriers at horizontal curves of undivided highways under a 3D approach 2018 ,		2
11	3D Modeling of Highway Guardrails for Sight Distance Assessment. <i>Journal of Transportation Engineering Part A: Systems</i> , 2021 , 147, 04021078	1.5	2
10	Analysis of sight distances at urban intersections from a vulnerable users approach: A case study. <i>Transportation Research Procedia</i> , 2020 , 45, 226-233	2.4	1
9	An index for sight-hidden dips assessment. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , 2016 , 169, 24-33	0.5	1
8	Operating speed models for two-lane rural highways. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , 2012 , 165, 107-118	0.5	1
7	Impact on driver behaviour of guardrails of different height in horizontal-vertical coordinated road scenarios with a limited available sight distance. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2022 , 84, 287-300	4.5	1
6	Finding and characterizing hidden dips in roads. <i>Baltic Journal of Road and Bridge Engineering</i> , 2015 , 10, 340-345	0.9	1
5	Assessment of intersection conflicts between riders and pedestrians using a GIS-based framework and portable LiDAR. <i>GIScience and Remote Sensing</i> , 1-16	4.8	1
4	Risk-Based Calibration of Road Sag Vertical Curve Design Guidelines on Undivided Highways. <i>Journal of Transportation Engineering Part A: Systems</i> , 2021 , 147, 04021055	1.5	1
3	A Combined Approach to Address Road Traffic Crashes beyond Cities: Hot Zone Identification and Countermeasures in Indonesia. <i>Sustainability</i> , 2020 , 12, 1801	3.6	0
2	Databases for Highway Inventories. Proposal for a New Model. <i>Transportation Research Procedia</i> , 2016 , 18, 205-211	2.4	
1	Modeling Urban Road Scenarios to Evaluate Intersection Visibility. <i>Sustainability</i> , 2022 , 14, 354	3.6	