

Elisabete Freitas

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

921
citations

516710

16
h-index

477307

29
g-index

49
all docs

49
docs citations

49
times ranked

715
citing authors

#	ARTICLE	IF	CITATIONS
1	Use and misuse of the Kubelka-Munk function to obtain the band gap energy from diffuse reflectance measurements. <i>Solid State Communications</i> , 2022, 341, 114573.	1.9	177
2	Synthesis of iron-doped TiO ₂ nanoparticles by ball-milling process: the influence of process parameters on the structural, optical, magnetic, and photocatalytic properties. <i>Journal of Materials Science</i> , 2014, 49, 7476-7488.	3.7	71
3	Traffic noise abatement: How different pavements, vehicle speeds and traffic densities affect annoyance levels. <i>Transportation Research, Part D: Transport and Environment</i> , 2012, 17, 321-326.	6.8	66
4	Development of photocatalytic asphalt mixtures by the deposition and volumetric incorporation of TiO ₂ nanoparticles. <i>Construction and Building Materials</i> , 2013, 38, 594-601.	7.2	60
5	Assessment of photocatalytic, superhydrophobic and self-cleaning properties on hot mix asphalts coated with TiO ₂ and/or ZnO aqueous solutions. <i>Construction and Building Materials</i> , 2018, 166, 500-509.	7.2	49
6	3D surface profile equipment for the characterization of the pavement texture – TexScan. <i>Mechatronics</i> , 2010, 20, 674-685.	3.3	44
7	Review and analysis of advances in functionalized, smart, and multifunctional asphalt mixtures. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111552.	16.4	40
8	Smart, Photocatalytic and Self-Cleaning Asphalt Mixtures: A Literature Review. <i>Coatings</i> , 2019, 9, 696.	2.6	37
9	Noise abatement and traffic safety: The trade-off of quieter engines and pavements on vehicle detection. <i>Accident Analysis and Prevention</i> , 2013, 51, 11-17.	5.7	34
10	Traffic Noise Changes due to Water on Porous and Dense Asphalt Surfaces. <i>Road Materials and Pavement Design</i> , 2009, 10, 587-607.	4.0	29
11	Photocatalytic asphalt pavement: the physicochemical and rheological impact of TiO ₂ nano/microparticles and ZnO microparticles onto the bitumen. <i>Road Materials and Pavement Design</i> , 2019, 20, 1452-1467.	4.0	25
12	Traffic noise and pavement distresses: Modelling and assessment of input parameters influence through data mining techniques. <i>Applied Acoustics</i> , 2018, 138, 147-155.	3.3	23
13	Traffic noise: Annoyance assessment of real and virtual sounds based on close proximity measurements. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 52, 399-407.	6.8	22
14	Pedestrian-Vehicle Interaction at Unsignalized Crosswalks: A Systematic Review. <i>Sustainability</i> , 2020, 12, 2805.	3.2	21
15	Evaluation of band gap energy of TiO ₂ precipitated from titanium sulphate. <i>Physica B: Condensed Matter</i> , 2022, 639, 414008.	2.7	21
16	The effect of time on the contribution of asphalt rubber mixtures to noise abatement. <i>Noise Control Engineering Journal</i> , 2012, 60, 1-8.	0.3	17
17	Photocatalytic asphalt mixtures: Mechanical performance and impacts of traffic and weathering abrasion on photocatalytic efficiency. <i>Catalysis Today</i> , 2019, 326, 94-100.	4.4	16
18	Physicochemical and Rheological Properties of a Transparent Asphalt Binder Modified with Nano-TiO ₂ . <i>Nanomaterials</i> , 2020, 10, 2152.	4.1	16

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19	Mechanical performance of asphalt mixtures produced with cork or rubber granulates as aggregate partial substitutes. <i>Construction and Building Materials</i> , 2013, 41, 209-215.	7.2	15
20	Estimation of the Rock Deformation Modulus and RMR Based on Data Mining Techniques. <i>Geotechnical and Geological Engineering</i> , 2012, 30, 787-801.	1.7	13
21	The analysis of variability of pavement indicators: MPD, SMTD and IRI. A case study of Portugal roads. <i>International Journal of Pavement Engineering</i> , 2014, 15, 361-371.	4.4	12
22	Photocatalytic asphalt mixtures: semiconductorsâ€™ impact in skid resistance and texture. <i>Road Materials and Pavement Design</i> , 2019, 20, S578-S589.	4.0	12
23	To cross or not to cross: Impact of visual and auditory cues on pedestriansâ€™ crossing decision-making. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2021, 82, 202-220.	3.7	12
24	The Influence of Noise Emitted by Vehicles on Pedestrian Crossing Decision-Making: A Study in a Virtual Environment. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2913.	2.5	10
25	Effect of Construction Quality, Temperature, and Rutting on Initiation of Top-Down Cracking. <i>Transportation Research Record</i> , 2005, 1929, 174-182.	1.9	10
26	Modelling Tyre-Road Noise with Data Mining Techniques. <i>Archives of Acoustics</i> , 2015, 40, 547-560.	0.8	8
27	Development of Photocatalytic 3D-Printed Cementitious Mortars: Influence of the Curing, Spraying Time Gaps and TiO ₂ Coating Rates. <i>Buildings</i> , 2021, 11, 381.	3.1	8
28	Prediction of Friction Degradation in Highways with Linear Mixed Models. <i>Coatings</i> , 2021, 11, 187.	2.6	6
29	Portuguese two-lane highways: modelling crash frequencies for different temporal and spatial aggregation of crash data. <i>Transport</i> , 2018, 33, 92-103.	1.2	5
30	The Influence of Pavement Degradation on Population Exposure to Road Traffic Noise. <i>Coatings</i> , 2019, 9, 298.	2.6	5
31	Functionalization of Smart Recycled Asphalt Mixtures: A Sustainability Scientific and Pedagogical Approach. <i>Sustainability</i> , 2022, 14, 573.	3.2	5
32	A new machine for acquire pavement texture. , 2009, , .		4
33	Integration of geometric consistency contributory factors in three-leg junctions collision prediction models of Portuguese two-lane national highways. <i>Accident Analysis and Prevention</i> , 2016, 86, 59-67.	5.7	4
34	Surface rehabilitation of Portland cement concrete (PCC) pavements using single or double surface dressings with soft bitumen, conventional or modified emulsions. <i>Construction and Building Materials</i> , 2021, 281, 122611.	7.2	4
35	Effect of Built Environment Factors on Pedestrian Safety in Portuguese Urban Areas. <i>Applied System Innovation</i> , 2021, 4, 28.	4.6	3
36	CPX based synthesis for binaural auralization of vehicle rolling noise to an arbitrary positioned stander-by receiver. <i>Applied Acoustics</i> , 2021, 182, 108211.	3.3	3

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37	Asphalt Binder "Skincare" Aging Evaluation of an Asphalt Binder Modified by Nano-TiO ₂ . <i>Nanomaterials</i> , 2022, 12, 1678.	4.1	3
38	Tyre/Road Noise Annoyance Assessment Through Virtual Sounds. , 2016, , .		2
39	Superhydrophobic Asphalt Pavements: Surface Improvement. <i>EPJ Web of Conferences</i> , 2020, 238, 12012.	0.3	1
40	Optical microtopographic inspection of asphalt pavement surfaces. , 2017, , .		1
41	Distress Detection in Road Pavements Using Neural Networks. <i>Lecture Notes in Networks and Systems</i> , 2022, , 151-160.	0.7	1
42	Transport Noise and Health. , 2021, , 311-319.		0
43	Photocatalytic and smart asphalt mixtures: a brief overview. , 2019, , .		0
44	Evaluation of the best solution for the functionalization of photocatalytic, superhydrophobic, and self-cleaning properties on asphalt mixtures. <i>EPJ Web of Conferences</i> , 2021, 255, 12004.	0.3	0
45	Traffic Noise Changes due to Water on Porous and Dense Asphalt Surfaces. <i>Road Materials and Pavement Design</i> , 2009, 10, 587-607.	4.0	0