

Antonio Peñaa Garcã-a

List of Publications by Year in descending order

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60
papers

1,194
citations

393982

19
h-index

395343

33
g-index

60
all docs

60
docs citations

60
times ranked

721
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable tunnel lighting: One decade of proposals, advances and open points. <i>Tunnelling and Underground Space Technology</i> , 2022, 119, 104227.	3.0	25
2	Peopleâ€™s Perception of Experimental Installations for Sustainable Energy: The Case of IFMIF-DONES. <i>Sustainability</i> , 2022, 14, 899.	1.6	0
3	The Contribution of Peripheral Large Scientific Infrastructures to Sustainable Development from a Global and Territorial Perspective: The Case of IFMIF-DONES. <i>Sustainability</i> , 2021, 13, 454.	1.6	4
4	Comparative Study of Energy Savings for Various Control Strategies in the Tunnel Lighting System. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6372.	1.3	11
5	Indoor Lighting Customization Based on Effective Reflectance Coefficients: A Methodology to Optimize Visual Performance and Decrease Consumption in Educative Workplaces. <i>Sustainability</i> , 2021, 13, 119.	1.6	5
6	IFMIF-DONES as Paradigm of Institutional Funding in the Way towards Sustainable Energy. <i>Sustainability</i> , 2021, 13, 13093.	1.6	1
7	Influence of Groves on Daylight Conditions and Visual Performance of Users of Urban Civil Infrastructures. <i>Sustainability</i> , 2021, 13, 12732.	1.6	1
8	Optimizing Lighting of Rural Roads and Protected Areas with White Light: A Compromise among Light Pollution, Energy Savings, and Visibility. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2020, 16, 147-156.	1.5	30
9	Flat Glass or Crystal Dome Aperture? A Year-Long Comparative Analysis of the Performance of Light Pipes in Real Residential Settings and Climatic Conditions. <i>Sustainability</i> , 2020, 12, 3858.	1.6	7
10	Installation of solar panels in the surroundings of tunnel portals: A double-targeted strategy to decrease lighting requirements and consumption. <i>Tunnelling and Underground Space Technology</i> , 2020, 97, 103251.	3.0	9
11	The Perspective of Total Lighting as a Key Factor to Increase the Sustainability of Strategic Activities. <i>Sustainability</i> , 2020, 12, 2751.	1.6	11
12	Optical coupling of grouped tunnels to decrease the energy and materials consumption of their lighting installations. <i>Tunnelling and Underground Space Technology</i> , 2019, 91, 103007.	3.0	13
13	Decrease of the Maximum Speed in Highway Tunnels as a Measure to Foster Energy Savings and Sustainability. <i>Energies</i> , 2019, 12, 685.	1.6	10
14	Usersâ€™ Awareness, Attitudes, and Perceptions of Health Risks Associated with Excessive Lighting in Night Markets: Policy Implications for Sustainable Development. <i>Sustainability</i> , 2019, 11, 6091.	1.6	10
15	Towards Total Lighting: Expanding the Frontiers of Sustainable Development. <i>Sustainability</i> , 2019, 11, 6943.	1.6	6
16	Influence of lighting colour temperature on indoor thermal perception: A strategy to save energy from the HVAC installations. <i>Energy and Buildings</i> , 2019, 185, 112-122.	3.1	41
17	A First Approach to a New Index on Indoor Lighting Comfort Based on Corneal Illuminance. <i>Journal of Daylighting</i> , 2019, 6, 124-130.	0.5	2
18	Proposal to forest Alpine tunnels surroundings to enhance energy savings from the lighting installations. Towards a standard procedure. <i>Tunnelling and Underground Space Technology</i> , 2018, 78, 1-7.	3.0	20

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19	A Global Perspective for Sustainable Highway Tunnel Lighting Regulations: Greater Road Safety with a Lower Environmental Impact. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2658.	1.2	16
20	Sustainability as the Key Framework of a Total Lighting. <i>Sustainability</i> , 2018, 10, 4412.	1.6	3
21	The impact of lighting on drivers well-being and safety in very long underground roads: New challenges for new infrastructures. <i>Tunnelling and Underground Space Technology</i> , 2018, 80, 38-43.	3.0	51
22	Determination of lighting and energy demands of road tunnels using vehicle based photographs of the portal gates: An accessible and safe tool for tunnel renewal and maintenance. <i>Tunnelling and Underground Space Technology</i> , 2018, 78, 8-15.	3.0	10
23	The Use of Led Technology and Biomass to Power Public Lighting in a Local Context: The Case of Baeza (Spain). <i>Energies</i> , 2018, 11, 1783.	1.6	27
24	FINANCIAL AND ENVIRONMENTAL IMPACT OF COMBINED ACTIONS IN ROAD TUNNELS FOR THE DECREASE OF ENERGY AND RAW MATERIAL CONSUMPTION. <i>WIT Transactions on Ecology and the Environment</i> , 2018, , .	0.0	3
25	The SLT equation: A tool to predict and evaluate energy savings in road tunnels with sunlight systems. <i>Tunnelling and Underground Space Technology</i> , 2017, 64, 43-50.	3.0	17
26	Indoor lighting techniques: An overview of evolution and new trends for energy saving. <i>Energy and Buildings</i> , 2017, 140, 50-60.	3.1	115
27	A proposal for evaluation of energy consumption and sustainability of road tunnels: The sustainability vector. <i>Tunnelling and Underground Space Technology</i> , 2017, 65, 53-61.	3.0	14
28	Use of Natural Light vs. Cold LED Lighting in Installations for the Recovery of Victims of Gender Violence: Impact on Energy Consumption and Victimsâ€™ Recovery. <i>Sustainability</i> , 2017, 9, 562.	1.6	14
29	Proposal to Foster Sustainability through Circular Economy-Based Engineering: A Profitable Chain from Waste Management to Tunnel Lighting. <i>Sustainability</i> , 2017, 9, 2229.	1.6	29
30	Proposal for Sustainable Dynamic Lighting in Sport Facilities to Decrease Violence among Spectators. <i>Sustainability</i> , 2016, 8, 1298.	1.6	13
31	A simple and accurate model for the design of public lighting with energy efficiency functions based on regression analysis. <i>Energy</i> , 2016, 107, 831-842.	4.5	30
32	Personal factors influencing the visual reaction time of pedestrians to detect turn indicators in the presence of Daytime Running Lamps. <i>Ergonomics</i> , 2016, 59, 1596-1605.	1.1	2
33	Use of sunlight in road tunnels: An approach to the improvement of light-pipesâ€™ efficacy through heliostats. <i>Tunnelling and Underground Space Technology</i> , 2016, 60, 135-140.	3.0	46
34	Considerations about the impact of public lighting on pedestriansâ€™ perception of safety and well-being. <i>Safety Science</i> , 2016, 89, 315-318.	2.6	10
35	New rules of thumb maximizing energy efficiency in street lighting with discharge lamps: The general equations for lighting design. <i>Engineering Optimization</i> , 2016, 48, 1080-1089.	1.5	13
36	Application of Translucent Concrete for Lighting Purposes in Civil Infrastructures and its Optical Characterization. <i>Key Engineering Materials</i> , 2015, 663, 148-156.	0.4	10

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37	Use of diffusers materials to improve the homogeneity of sunlight under pergolas installed in road tunnels portals for energy savings. <i>Tunnelling and Underground Space Technology</i> , 2015, 48, 123-128.	3.0	49
38	Impact of public lighting on pedestrians's perception of safety and well-being. <i>Safety Science</i> , 2015, 78, 142-148.	2.6	127
39	Towards the generation of distributed electric power: self-consumption with net balance. <i>International Journal of Low-Carbon Technologies</i> , 2015, 10, 254-257.	1.2	0
40	Decrease of energy demands of lighting installations in road tunnels based in the forestation of portal surroundings with climbing plants. <i>Tunnelling and Underground Space Technology</i> , 2015, 46, 111-115.	3.0	47
41	Considerations on the Effects of Automotive Lighting to Enhance Alert and Avoid Sleepiness in Night Time Drivers Via Melatonin Inhibition. <i>Procedia Engineering</i> , 2014, 84, 608-612.	1.2	4
42	Teaching methodologies to promote creativity in the professional skills related to optics knowledge. , 2014, , .		0
43	Study of light-pipes for the use of sunlight in road tunnels: From a scale model to real tunnels. <i>Tunnelling and Underground Space Technology</i> , 2014, 41, 82-87.	3.0	62
44	Effects of Daytime Running Lamps on Pedestrians Visual Reaction Time: Implications on Vehicles and Human Factors. <i>Procedia Engineering</i> , 2014, 84, 603-607.	1.2	4
45	Strategies for the optimization of binomial energy saving landscape integration in road tunnels. <i>WIT Transactions on Ecology and the Environment</i> , 2014, , .	0.0	15
46	Study of pergolas for energy savings in road tunnels. Comparison with tension structures. <i>Tunnelling and Underground Space Technology</i> , 2013, 35, 172-177.	3.0	46
47	A new methodology for calculating roadway lighting design based on a multi-objective evolutionary algorithm. <i>Expert Systems With Applications</i> , 2013, 40, 2156-2164.	4.4	41
48	A simple method for designing efficient public lighting, based on new parameter relationships. <i>Expert Systems With Applications</i> , 2013, 40, 7305-7315.	4.4	41
49	Reflectance of interurban-road pavements from radar-based measurements. , 2013, , .		1
50	Computational optimization of semi-transparent tension structures for the use of solar light in road tunnels. <i>Tunnelling and Underground Space Technology</i> , 2012, 32, 127-131.	3.0	30
51	Impact of Adaptive Front-lighting Systems (AFS) on road safety: Evidences and open points. <i>Safety Science</i> , 2012, 50, 945-949.	2.6	15
52	Extension of the Rotating Planar Waveguide Model to Formation of Interference Patterns in Optical Fibers. <i>Journal of the Optical Society of Korea</i> , 2011, 15, 128-131.	0.6	0
53	Tension structures: A way towards sustainable lighting in road tunnels. <i>Tunnelling and Underground Space Technology</i> , 2011, 26, 223-227.	3.0	45
54	A Scale Model of Tension Structures in Road Tunnels to Optimize the Use of Solar Light for Energy Saving. <i>International Journal of Photoenergy</i> , 2011, 2011, 1-9.	1.4	22

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55	Influence of daytime running lamps on visual reaction time of pedestrians when detecting turn indicators. <i>Journal of Safety Research</i> , 2010, 41, 385-389.	1.7	7
56	The rotating planar dielectric waveguide model in wave optics: results for step-index profile optical fibers. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 035103.	1.0	1
57	Planar dielectric waveguides in rotation are optical fibers: comparison with the classical model. <i>Optics Express</i> , 2008, 16, 927.	1.7	2
58	A simple model for fibre optics: planar dielectric waveguides in rotation. <i>European Journal of Physics</i> , 2006, 27, 657-665.	0.3	4
59	The Contribution of Experimental Energy Facilities to the Achievement of SDG in their Environment: The Case of IFMIF-DONES. <i>Renewable Energy and Power Quality Journal</i> , 0, 19, 471-476.	0.2	1
60	Computational Simulation versus Scale Model to determine the Optimal Shape of Tension Structures for the use of Sunlight in Road Tunnels. <i>Renewable Energy and Power Quality Journal</i> , 0, , 97-101.	0.2	1