Antonio Pea Garca

List of Publications by Year in Descending Order

52 papers	852 citations	17 h-index	28 g-index
60 ext. papers	1,014 ext. citations	4.3 avg, IF	5.1 L-index

#	Paper	IF	Citations
52	People Perception of Experimental Installations for Sustainable Energy: The Case of IFMIF-DONES. *Sustainability*, **2022**, 14, 899	3.6	
51	Sustainable tunnel lighting: One decade of proposals, advances and open points. *Tunnelling and Underground Space Technology*, **2022**, 119, 104227	5.7	2
50	IFMIF-DONES as Paradigm of Institutional Funding in the Way towards Sustainable Energy. *Sustainability*, **2021**, 13, 13093	3.6	1
49	Influence of Groves on Daylight Conditions and Visual Performance of Users of Urban Civil Infrastructures. *Sustainability*, **2021**, 13, 12732	3.6	0
48	Indoor Lighting Customization Based on Effective Reflectance Coefficients: A Methodology to Optimize Visual Performance and Decrease Consumption in Educative Workplaces. *Sustainability*, **2021**, 13, 119	3.6	3
47	Comparative Study of Energy Savings for Various Control Strategies in the Tunnel Lighting System. *Applied Sciences (Switzerland)*, **2021**, 11, 6372	2.6	6
46	The Contribution of Peripheral Large Scientific Infrastructures to Sustainable Development from a Global and Territorial Perspective: The Case of IFMIF-DONES. *Sustainability*, **2021**, 13, 454	3.6	3
45	Flat Glass or Crystal Dome Aperture? A Year-Long Comparative Analysis of the Performance of Light Pipes in Real Residential Settings and Climatic Conditions. *Sustainability*, **2020**, 12, 3858	3.6	4
44	Installation of solar panels in the surroundings of tunnel portals: A double-targeted strategy to decrease lighting requirements and consumption. *Tunnelling and Underground Space Technology*, **2020**, 97, 103251	5.7	5
43	The Perspective of Total Lighting as a Key Factor to Increase the Sustainability of Strategic Activities. *Sustainability*, **2020**, 12, 2751	3.6	9
42	Optimizing Lighting of Rural Roads and Protected Areas with White Light: A Compromise among Light Pollution, Energy Savings, and Visibility. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2020**, 16, 147-156	3.5	22
41	Decrease of the Maximum Speed in Highway Tunnels as a Measure to Foster Energy Savings and Sustainability. *Energies*, **2019**, 12, 685	3.1	7
40	Optical coupling of grouped tunnels to decrease the energy and materials consumption of their lighting installations. *Tunnelling and Underground Space Technology*, **2019**, 91, 103007	5.7	4
39	Users Awareness, Attitudes, and Perceptions of Health Risks Associated with Excessive Lighting in Night Markets: Policy Implications for Sustainable Development. *Sustainability*, **2019**, 11, 6091	3.6	6
38	Influence of lighting colour temperature on indoor thermal perception: A strategy to save energy from the HVAC installations. *Energy and Buildings*, **2019**, 185, 112-122	7	24
37	Proposal to forest Alpine tunnels surroundings to enhance energy savings from the lighting installations. Towards a standard procedure. *Tunnelling and Underground Space Technology*, **2018**, 78, 1-7	5.7	13
36	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. *Tunnelling and Underground Space Technology*, **2018**, 78, 8-15	5.7	8

35	The Use of Led Technology and Biomass to Power Public Lighting in a Local Context: The Case of Baeza (Spain). *Energies*, **2018**, 11, 1783	3.1	24
34	FINANCIAL AND ENVIRONMENTAL IMPACT OF COMBINED ACTIONS IN ROAD TUNNELS FOR THE DECREASE OF ENERGY AND RAW MATERIAL CONSUMPTION **2018**,		3
33	A Global Perspective for Sustainable Highway Tunnel Lighting Regulations: Greater Road Safety with a Lower Environmental Impact. *International Journal of Environmental Research and Public Health*, **2018**, 15,	4.6	11
32	The impact of lighting on drivers well-being and safety in very long underground roads: New challenges for new infrastructures. *Tunnelling and Underground Space Technology*, **2018**, 80, 38-43	5.7	25
31	The SLT equation: A tool to predict and evaluate energy savings in road tunnels with sunlight systems. *Tunnelling and Underground Space Technology*, **2017**, 64, 43-50	5.7	13
30	Indoor lighting techniques: An overview of evolution and new trends for energy saving. *Energy and Buildings*, **2017**, 140, 50-60	7	89
29	A proposal for evaluation of energy consumption and sustainability of road tunnels: The sustainability vector. *Tunnelling and Underground Space Technology*, **2017**, 65, 53-61	5.7	12
28	Use of Natural Light vs. Cold LED Lighting in Installations for the Recovery of Victims of Gender Violence: Impact on Energy Consumption and Victims Recovery. *Sustainability*, **2017**, 9, 562	3.6	9
27	Proposal to Foster Sustainability through Circular Economy-Based Engineering: A Profitable Chain from Waste Management to Tunnel Lighting. *Sustainability*, **2017**, 9, 2229	3.6	25
26	Considerations about the impact of public lighting on pedestrians perception of safety and well-being. *Safety Science*, **2016**, 89, 315-318	5.8	7
25	New rules of thumb maximizing energy efficiency in street lighting with discharge lamps: The general equations for lighting design. *Engineering Optimization*, **2016**, 48, 1080-1089	2	8
24	Proposal for Sustainable Dynamic Lighting in Sport Facilities to Decrease Violence among Spectators. *Sustainability*, **2016**, 8, 1298	3.6	7
23	A simple and accurate model for the design of public lighting with energy efficiency functions based on regression analysis. *Energy*, **2016**, 107, 831-842	7.9	24
22	Personal factors influencing the visual reaction time of pedestrians to detect turn indicators in the presence of Daytime Running Lamps. *Ergonomics*, **2016**, 59, 1596-1605	2.9	0
21	Use of sunlight in road tunnels: An approach to the improvement of light-pipes efficacy through heliostats. *Tunnelling and Underground Space Technology*, **2016**, 60, 135-140	5.7	36
20	Use of diffusers materials to improve the homogeneity of sunlight under pergolas installed in road tunnels portals for energy savings. *Tunnelling and Underground Space Technology*, **2015**, 48, 123-128	5.7	37
19	Impact of public lighting on pedestrians perception of safety and well-being. *Safety Science*, **2015**, 78, 142-148	5.8	92
18	Decrease of energy demands of lighting installations in road tunnels based in the forestation of portal surroundings with climbing plants. *Tunnelling and Underground Space Technology*, **2015**, 46, 111-115	5.7	36

17	Application of Translucent Concrete for Lighting Purposes in Civil Infrastructures and its Optical Characterization. *Key Engineering Materials*, **2015**, 663, 148-156	0.4	2
16	Effects of Daytime Running Lamps on Pedestrians Visual Reaction Time: Implications on Vehicles and Human Factors. *Procedia Engineering*, **2014**, 84, 603-607		4
15	Considerations on the Effects of Automotive Lighting to Enhance Alert and Avoid Sleepiness in Night Time Drivers Via Melatonin Inhibition. *Procedia Engineering*, **2014**, 84, 608-612		1
14	Study of light-pipes for the use of sunlight in road tunnels: From a scale model to real tunnels. *Tunnelling and Underground Space Technology*, **2014**, 41, 82-87	5.7	51
13	Strategies for the optimization of binomial energy saving landscape integration in road tunnels **2014**,		12
12	Study of pergolas for energy savings in road tunnels. Comparison with tension structures. *Tunnelling and Underground Space Technology*, **2013**, 35, 172-177	5.7	37
11	A new methodology for calculating roadway lighting design based on a multi-objective evolutionary algorithm. *Expert Systems With Applications*, **2013**, 40, 2156-2164	7.8	33
10	A simple method for designing efficient public lighting, based on new parameter relationships. *Expert Systems With Applications*, **2013**, 40, 7305-7315	7.8	34
9	Impact of Adaptive Front-lighting Systems (AFS) on road safety: Evidences and open points. *Safety Science*, **2012**, 50, 945-949	5.8	7
8	Computational optimization of semi-transparent tension structures for the use of solar light in road tunnels. *Tunnelling and Underground Space Technology*, **2012**, 32, 127-131	5.7	23
7	Extension of the Rotating Planar Waveguide Model to Formation of Interference Patterns in Optical Fibers. *Journal of the Optical Society of Korea*, **2011**, 15, 128-131		
6	Tension structures: A way towards sustainable lighting in road tunnels. *Tunnelling and Underground Space Technology*, **2011**, 26, 223-227	5.7	34
5	A Scale Model of Tension Structures in Road Tunnels to Optimize the Use of Solar Light for Energy Saving. *International Journal of Photoenergy*, **2011**, 2011, 1-9	2.1	16
4	The rotating planar dielectric waveguide model in wave optics: results for step-index profile optical fibers. *Journal of Optics (United Kingdom)*, **2010**, 12, 035103	1.7	1
3	Influence of daytime running lamps on visual reaction time of pedestrians when detecting turn indicators. *Journal of Safety Research*, **2010**, 41, 385-9	4	4
2	Planar dielectric waveguides in rotation are optical fibers: comparison with the classical model. *Optics Express*, **2008**, 16, 927-36	3.3	2
1	A simple model for fibre optics: planar dielectric waveguides in rotation. *European Journal of Physics*, **2006**, 27, 657-665	0.8	4