

Antonio Alvarez Fernandez-Balbuena

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

242
citations

1163117

8
h-index

1058476

14
g-index

44
all docs

44
docs citations

44
times ranked

191
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral damage model for lighted museum paintings: Oil, acrylic and gouache. <i>Journal of Cultural Heritage</i> , 2016, 22, 931-939.	3.3	29
2	Advanced daylighting evaluation applied to cultural heritage buildings and museums: Application to the cloister of Santa Maria El Paular. <i>Renewable Energy</i> , 2016, 85, 1362-1370.	8.9	24
3	Ideal 3D asymmetric concentrator. <i>Solar Energy</i> , 2009, 83, 113-117.	6.1	20
4	Horizontal daylighting system for office buildings. <i>Energy and Buildings</i> , 2013, 67, 525-530.	6.7	20
5	Elliptical concentrators. <i>Applied Optics</i> , 2006, 45, 7622.	2.1	19
6	Optimization of daylight utilization in energy saving application on the library in faculty of architecture, design and built environment, Beirut Arab University. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 3921-3930.	6.4	19
7	Hyperparabolic concentrators. <i>Applied Optics</i> , 2009, 48, 712.	2.1	17
8	The Influence of COVID-19 Isolation on Physical Activity Habits and Its Relationship with Convergence Insufficiency. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7406.	2.6	15
9	New concentrator multifocal Fresnel lens for improved uniformity: design and characterization. , 2009, , .		8
10	Lighting quality for aluminum and prismatic light guides. <i>Proceedings of SPIE</i> , 2011, , .	0.8	7
11	Air shooting competition effects on visual skills depending on the sport level. <i>European Journal of Sport Science</i> , 2022, 22, 336-343.	2.7	7
12	Accurate Measurements of Spectral Reflectance in Picasso's <i>Guernica</i> Painting. <i>Applied Spectroscopy</i> , 2016, 70, 147-155.	2.2	6
13	Thermal influences on optical properties of light-emitting diodes: a semiempirical model. <i>Applied Optics</i> , 2001, 40, 533.	2.1	5
14	Louvers design for LED displays for sunny days. <i>Displays</i> , 2007, 28, 167-173.	3.7	5
15	Determination of the characteristic inactivation fluence for SARS-CoV-2 under UV-C radiation considering light absorption in culture media. <i>Scientific Reports</i> , 2021, 11, 15293.	3.3	5
16	Application of dynamic merit function to nonimaging systems optimization. <i>Optical Engineering</i> , 2015, 54, 025107.	1.0	4
17	Skylight: a hollow prismatic CPC. , 2009, , .		3
18	Method for the characterization of Fresnel lens flux transfer performance. , 2011, , .		3

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19	Selective Spectral LED Lighting System Applied in Paleolithic Cave Art. LEUKOS - Journal of Illuminating Engineering Society of North America, 2015, 11, 223-230.	2.9	3
20	Optical Technologies Applied to Cultural Heritage. Heritage, 2022, 5, 359-361.	1.9	3
21	Measuring High Dynamic Range Spectral Reflectance of Artworks through an Image Capture Matrix Hyperspectral Camera. Sensors, 2022, 22, 4664.	3.8	3
22	High efficiency 90° elbow for light guides. Proceedings of SPIE, 2008, , .	0.8	2
23	Field method for dielectric concentrator design. Proceedings of SPIE, 2011, , .	0.8	2
24	Beacon system based on light-emitting diode sources for runways lighting. Optical Engineering, 2014, 53, 066104.	1.0	2
25	Abdominal obesity linked to a longer cone-mediated dark-adaptation recovery time in healthy eyes. Experimental Eye Research, 2019, 181, 163-170.	2.6	2
26	Measuring the absorption coefficient of optical materials with arbitrary shape or distribution within an integrating sphere. Optics Express, 2021, 29, 26287.	3.4	2
27	A new method for designing, improving, and measuring hollow light guides. Proceedings of SPIE, 2008, , .	0.8	1
28	ADASY (Active Daylighting System). Proceedings of SPIE, 2009, , .	0.8	1
29	Optics detailed analysis of an improved collimation system for LED light sources. Proceedings of SPIE, 2011, , .	0.8	1
30	Real time control device for reading distance and head tilt. Optik, 2016, 127, 11918-11926.	2.9	1
31	Evaluation of the influence of varnish on the color of Picasso's Woman in Blue. Spectroscopy Letters, 2020, 53, 140-151.	1.0	1
32	Reflectance Measurements on Cultural Heritage. , 0, , .		1
33	Geometrical limits for UV-C inactivation of pathogens. Optik, 2022, 250, 168269.	2.9	1
34	Improved spatial integrator with axicon-dioptic elements. Optical Engineering, 2006, 45, 073002.	1.0	0
35	Field method for concentrator design. , 2009, , .		0
36	Achromatic Fresnel Lens with Improved Efficiency for PV Systems. International Journal of Photoenergy, 2014, 2014, 1-9.	2.5	0

#	ARTICLE	IF	CITATIONS
37	Graphical methods applied to optical design. <i>Optik</i> , 2014, 125, 1474-1477.	2.9	0
38	Colorimetry to assess the visual impact of dust deposition on mosaics at sheltered archaeological sites. <i>Heritage Science</i> , 2021, 9, .	2.3	0
39	Real time 3D photometry. , 2017, , .		0
40	Advances on geometric flux optical design method. , 2017, , .		0
41	Developments for lighting applications by using prismatic film. , 2019, , .		0
42	Efficient and sustainable energy lighting solutions for human life: a review. <i>Optical Engineering</i> , 2020, 59, 1.	1.0	0