

Francisco Jose Torcal-Milla

List of Publications by Year in descending order

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43
papers

418
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840776

11
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839539

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43
all docs

43
docs citations

43
times ranked

246
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase-shifting Zernike phase contrast microscopy for quantitative phase measurement. Optics Letters, 2011, 36, 4305.	3.3	52
2	Diffraction of gratings with rough edges. Optics Express, 2008, 16, 19757.	3.4	40
3	Talbot effect in metallic gratings under Gaussian illumination. Optics Communications, 2007, 278, 23-27.	2.1	34
4	Talbot effect with rough reflection gratings. Applied Optics, 2007, 46, 3668.	2.1	30
5	Self-imaging of gratings with rough strips. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2390.	1.5	22
6	Far field of gratings with rough strips. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 828.	1.5	18
7	Self-images location of amplitude/phase binary gratings. Applied Optics, 2009, 48, 6252.	2.1	15
8	Self-imaging technique for beam collimation. Optics Letters, 2014, 39, 5764.	3.3	15
9	Double grating systems with one steel tape grating. Optics Communications, 2008, 281, 5647-5652.	2.1	13
10	Near-field diffraction of gratings with surface defects. Applied Optics, 2010, 49, 2190.	2.1	13
11	Self-imaging with curved gratings. Optics Communications, 2010, 283, 3869-3873.	2.1	12
12	Collimation method using a double grating system. Applied Optics, 2010, 49, 3363.	2.1	11
13	Fast optical source for quantum key distribution based on semiconductor optical amplifiers. Optics Express, 2011, 19, 3825.	3.4	11
14	Diffraction by random Ronchi gratings. Applied Optics, 2016, 55, 5855.	2.1	11
15	Use of steel substrates in diffractive optics: Near field of high surface quality steel tape gratings. Optics and Lasers in Engineering, 2011, 49, 356-360.	3.8	10
16	Diffraction by gratings with random fill factor. Applied Optics, 2017, 56, 5253.	2.1	9
17	Effect of Aberrations on the Self-Imaging Phenomenon. Journal of Lightwave Technology, 2011, 29, 1051-1057.	4.6	7
18	Self-imaging of gratings with two roughness levels. Optics Communications, 2012, 285, 13-17.	2.1	7

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19	Lissajous figure-based single-frame collimation technique. Sensors and Actuators A: Physical, 2015, 233, 259-266.	4.1	7
20	Dual self-image technique for beam collimation. Journal of Optics (United Kingdom), 2016, 18, 075608.	2.2	7
21	Single-focus binary Fresnel zone plate. Optics and Laser Technology, 2017, 97, 316-320.	4.6	7
22	Collimation technique and testing applied to finite size polychromatic sources. Applied Optics, 2017, 56, 3628.	2.1	7
23	Sector-based Fresnel zone plate with extended depth of focus. Optics and Laser Technology, 2022, 154, 108294.	4.6	7
24	Near-field diffraction of chirped gratings. Optics Letters, 2016, 41, 4091.	3.3	6
25	Variogram-based method for contrast measurement. Applied Optics, 2007, 46, 5027.	2.1	5
26	Continuous self-imaging regime with a double-grating mask. Applied Optics, 2009, 48, 5722.	2.1	5
27	Gaussian-Schell-model beams propagating through rough gratings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 308.	1.5	5
28	Optimization of angular diffractive lenses with extended depth of focus. Journal of Optics (United Kingdom), 2015, 17, 125605.	2.2	5
29	Achromatic self-imaging with finite extension light sources. Journal of Optics (United Kingdom), 2015, 17, 125605.	2.2	4
30	Near field diffraction of cylindrical convex gratings. Journal of Optics (United Kingdom), 2015, 17, 035601.	2.2	4
31	Near-field diffraction-based focal length determination technique. Optics and Lasers in Engineering, 2017, 92, 105-109.	3.8	4
32	Near field diffraction of steel tape gratings illuminated with finite-size incoherent sources. Optik, 2022, 251, 168326.	2.9	4
33	Effect of fabrication errors on the diffraction pattern produced by sawtooth gratings. Applied Optics, 2010, 49, 1599.	2.1	3
34	Diffraction by metallic planar gratings. Applied Optics, 2013, 52, 6995.	1.8	2
35	Far-field diffraction of linear chirped gratings. Optics and Laser Technology, 2018, 107, 337-343.	4.6	2
36	Talbot effect with aberrated beams. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
37	Near field of stacked diffraction gratings. <i>Optik</i> , 2013, 124, 5237-5239.	2.9	1
38	A simple approach to the suppression of the Gibbs phenomenon in diffractive numerical calculations. <i>Optik</i> , 2021, 247, 167921.	2.9	1
39	Numerical model of the inhomogeneous scattering by the human lens. <i>Biomedical Optics Express</i> , 2019, 10, 2161.	2.9	1
40	Effect of surface defects on the self-images produced by diffraction gratings. , 2009, , .		0
41	Proposal for a new quantum voltage standard based in optical frequency measurements. , 2016, , .		0
42	Far field diffraction of gratings with two roughness levels. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 085605.	2.2	0
43	A diffraction experiment at the near field: the homemade Talbot effect. <i>Physics Education</i> , 2022, 57, 055020.	0.5	0