

Elisabet Perez-Cabre

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,623
citations

516710

16
h-index

454955

30
g-index

62
all docs

62
docs citations

62
times ranked

765
citing authors

#	ARTICLE	IF	CITATIONS
1	Roadmap on optical security. Journal of Optics (United Kingdom), 2016, 18, 083001.	2.2	338
2	Optical Techniques for Information Security. Proceedings of the IEEE, 2009, 97, 1128-1148.	21.3	295
3	Information authentication using photon-counting double-random-phase encrypted images. Optics Letters, 2011, 36, 22.	3.3	204
4	Blink Rate and Incomplete Blinks in Six Different Controlled Hard-Copy and Electronic Reading Conditions. , 2015, 56, 6679.		90
5	Multipoint phase calibration for improved compensation of inherent wavefront distortion in parallel aligned liquid crystal on silicon displays. Applied Optics, 2007, 46, 5667.	2.1	83
6	Photon-counting double-random-phase encoding for secure image verification and retrieval. Journal of Optics (United Kingdom), 2012, 14, 094001.	2.2	76
7	Improved decryption quality and security of a joint transform correlator-based encryption system. Journal of Optics (United Kingdom), 2013, 15, 025401.	2.2	59
8	Nonlinear optical security system based on a joint transform correlator in the Fresnel domain. Applied Optics, 2014, 53, 1674.	1.8	57
9	Dynamic compensation of chromatic aberration in a programmable diffractive lens. Optics Express, 2006, 14, 9103.	3.4	48
10	Nonlinear image encryption using a fully phase nonzero-order joint transform correlator in the Gyrator domain. Optics and Lasers in Engineering, 2017, 89, 88-94.	3.8	42
11	Multifactor authentication reinforces optical security. Optics Letters, 2006, 31, 721.	3.3	41
12	Generalized formulation of an encryption system based on a joint transform correlator and fractional Fourier transform. Journal of Optics (United Kingdom), 2014, 16, 125405.	2.2	34
13	Chromatic compensation of programmable Fresnel lenses. Optics Express, 2006, 14, 6226.	3.4	32
14	Photon-counting multifactor optical encryption and authentication. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	2.2	28
15	Near infrared multifactor identification tags. Optics Express, 2007, 15, 15615.	3.4	20
16	Scale and Rotation Invariant Optical ID Tags for Automatic Vehicle Identification and Authentication. IEEE Transactions on Vehicular Technology, 2005, 54, 1295-1303.	6.3	19
17	Joint transform correlator-based encryption system using the Fresnel transform and nonlinear filtering. Proceedings of SPIE, 2013, , .	0.8	17
18	Images encryption system based on a fractional joint transform correlator and nonlinear filtering. Optica Pura Y Aplicada, 2014, 47, 35-41.	0.1	14

#	ARTICLE	IF	CITATIONS
19	Dynamic calibration for improving the speed of a parallel-aligned liquid-crystal-on-silicon display. Applied Optics, 2009, 48, 4616.	2.1	11
20	Experimental optical encryption scheme for the double random phase encoding using a nonlinear joint transform correlator. Optik, 2020, 217, 164653.	2.9	11
21	Liquid Crystal Spatial Light Modulator with Optimized Phase Modulation Ranges to Display Multiorder Diffractive Elements. Applied Sciences (Switzerland), 2019, 9, 2592.	2.5	9
22	Experimental color encryption in a joint transform correlator architecture. Journal of Physics: Conference Series, 2011, 274, 012054.	0.4	8
23	Advances in LCoS SLM characterization for improved optical performance in image processing. Proceedings of SPIE, 2008, , .	0.8	7
24	Remote optical ID tag recognition and verification using fully spatial phase multiplexing. , 2005, , .		6
25	Information compression for remote readable ID tags. Journal of Optics (United Kingdom), 2010, 12, 115404.	2.2	5
26	Design of Distortion-Invariant Optical ID Tags for Remote Identification and Verification of Objects. , 2007, , 207-226.		5
27	Real-Time Non-Intrusive Assessment of Viewing Distance during Computer Use. Optometry and Vision Science, 2016, 93, 1525-1531.	1.2	4
28	Blinking supervision in a working environment. Journal of Biomedical Optics, 2016, 21, 025005.	2.6	4
29	High secure authentication by optical multifactor ID tags. , 2006, , .		3
30	Visible and NIR spectral band combination to produce high security ID tags for automatic identification. , 2006, , .		3
31	Occlusion and noise tests on the encrypted image produced by a security system based on a joint transform correlator and the Fresnel transform. Journal of Physics: Conference Series, 2019, 1221, 012046.	0.4	3
32	Distortion-invariant ID tags for object identification. , 2004, , .		2
33	<title>Image processing of standard grading scales for objective assessment of contact lens wear complications</title>. , 2004, , .		2
34	Detection and authentication of objects by using distortion-invariant optical ID tags. , 2005, , .		2
35	Imaging Characteristics Of Programmable Lenses Generated By SLM. AIP Conference Proceedings, 2006, , .	0.4	2
36	Optical implementation of multifocal programmable lens with single and multiple axes. Journal of Physics: Conference Series, 2011, 274, 012050.	0.4	2

#	ARTICLE	IF	CITATIONS
37	Image Encryption System Based on a Nonlinear Joint Transform Correlator for the Simultaneous Authentication of Two Users. <i>Photonics</i> , 2019, 6, 128.	2.0	2
38	Image analysis of contact lens grading scales for objective grade assignment of ocular complications. , 2005, 5827, 418.		1
39	Remote object authentication using distortion-invariant ID tags. , 2005, , .		1
40	Optical ID tags for automatic vehicle identification and authentication. , 2008, , .		1
41	Effects of using an encrypted image corrupted by noise and occlusion in a security system based on joint transform correlator and Gyrator transform. , 2016, , .		1
42	First-order and multi-order diffractive lens using a device with 8µm phase modulation range. , 2016, , .		1
43	Spectral radiance of blue light filters on ophthalmic lenses. <i>Optica Pura Y Aplicada</i> , 2017, 50, 165-172.	0.1	1
44	Secure verification by multifactor optical validation. , 2006, , .		0
45	Optical Validation of Multiple Signals for Highly Secure Verification. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
46	Optical Validation Of Combined Images For High-Secure Identification. <i>ID Tags And Processors.. AIP Conference Proceedings</i> , 2007, , .	0.4	0
47	Encryption and validation of multiple signals for optical identification systems. <i>Journal of Physics: Conference Series</i> , 2007, 77, 012008.	0.4	0
48	Optical resources for highly secure remote object authentication. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
49	Optical ID Tags for Secure Verification of Multispectral Visible and NIR Signatures. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
50	Compensation of inherent wavefront distortion in zero-twist LCoS spatial light modulators. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
51	Multiplexing schemes for an achromatic programmable diffractive lens. <i>Journal of Physics: Conference Series</i> , 2008, 139, 012016.	0.4	0
52	Improved design of optical ID tags for remote validation. , 2009, , .		0
53	Photon-counting imaging based double-random-phase encryption for information security and verification. , 2011, , .		0
54	Static and dynamic amplitude modulation of light in a twisted nematic liquid crystal display. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
55	Ophthalmic compensation of visual ametropia based on a programmable diffractive lens. , 2013, , .		0
56	Programmable diffractive lens for ophthalmic application. Optical Engineering, 2014, 53, 061709.	1.0	0
57	Secure image encryption and authentication using the photon counting technique in the Gyrator domain. , 2015, , .		0
58	Image quality and security through nonlinear joint transform encryption. , 2016, , .		0
59	Influence of a perturbation in the Gyrator domain for a joint transform correlator-based encryption system. , 2017, , .		0
60	Nonlinear joint transform correlator architectures for images encryption, decryption and authentication systems. , 2017, , .		0
61	Nonlinear techniques for secure optical encryption and multifactor authentication. , 0, , .		0