

FÃ©lix Fanjul-VÃ©lez

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

401
citations

687220

13
h-index

839398

18
g-index

120
all docs

120
docs citations

120
times ranked

311
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarimetric analysis of the human cornea measured by polarization-sensitive optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2010, 15, 056004.	1.4	38
2	Efficient 3D numerical approach for temperature prediction in laser irradiated biological tissues. <i>Computers in Biology and Medicine</i> , 2009, 39, 810-817.	3.9	33
3	Superficial radially resolved fluorescence and 3D photochemical time-dependent model for photodynamic therapy. <i>Optics Letters</i> , 2014, 39, 1845.	1.7	26
4	Polarimetry of birefringent biological tissues with arbitrary fibril orientation and variable incidence angle. <i>Optics Letters</i> , 2010, 35, 1163.	1.7	24
5	Analysis of the depolarizing properties of normal and adenomatous polyps in colon mucosa for the early diagnosis of precancerous lesions. <i>Optics Communications</i> , 2011, 284, 4852-4856.	1.0	22
6	Optical crosstalk influence in fiber imaging endoscopes design. <i>Optics Communications</i> , 2010, 283, 633-638.	1.0	20
7	Modeling thermotherapy in vocal cords novel laser endoscopic treatment. <i>Lasers in Medical Science</i> , 2008, 23, 169-177.	1.0	17
8	Polarimetry group theory analysis in biological tissue phantoms by Mueller coherency matrix. <i>Optics Communications</i> , 2010, 283, 4525-4530.	1.0	17
9	Photosensitizer absorption coefficient modeling and necrosis prediction during photodynamic therapy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 114, 79-86.	1.7	17
10	Application of Classification Algorithms to Diffuse Reflectance Spectroscopy Measurements for Ex Vivo Characterization of Biological Tissues. <i>Entropy</i> , 2020, 22, 736.	1.1	16
11	Polarimetric study of birefringent turbid media with three-dimensional optic axis orientation. <i>Biomedical Optics Express</i> , 2014, 5, 287.	1.5	15
12	Physically meaningful depolarization metric based on the differential Mueller matrix. <i>Optics Letters</i> , 2015, 40, 3280.	1.7	15
13	Intra-class variability in diffuse reflectance spectroscopy: application to porcine adipose tissue. <i>Biomedical Optics Express</i> , 2018, 9, 2297.	1.5	15
14	Frequency up-conversion of coherent images by intracavity nondegenerate four-wave mixing. <i>Optics Express</i> , 2006, 14, 8298.	1.7	12
15	Spatial photosensitizer fluorescence emission predictive analysis for photodynamic therapy monitoring applied to a skin disease. <i>Optics Communications</i> , 2012, 285, 1581-1588.	1.0	12
16	FDTD-based Transcranial Magnetic Stimulation model applied to specific neurodegenerative disorders. <i>Computer Methods and Programs in Biomedicine</i> , 2015, 118, 34-43.	2.6	12
17	Influence of the Human Skin Tumor Type in Photodynamic Therapy Analysed by a Predictive Model. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-9.	1.4	7
18	Analysis of laser surgery in non-melanoma skin cancer for optimal tissue removal. <i>Laser Physics</i> , 2015, 25, 025606.	0.6	6

#	ARTICLE	IF	CITATIONS
19	Determination of the pathological state of skin samples by optical polarimetry parameters. , 2008, , .		5
20	Comparative study of optical activity in chiral biological media by polar decomposition and differential Mueller matrices analysis. Proceedings of SPIE, 2011, , .	0.8	5
21	Digital Histology by Phase Imaging Specific Biomarkers for Human Tumoral Tissues Discrimination. Applied Sciences (Switzerland), 2021, 11, 6142.	1.3	5
22	New trends in laser satellite communications: design and limitations. , 2008, , .		4
23	Necrosis prediction of photodynamic therapy applied to skin disorders. , 2009, , .		4
24	Light propagation in turbid media: Application to biological tissues. , 2011, , .		4
25	Predictive analysis of thermal distribution and damage in thermotherapy on biological tissue. , 2007, , .		3
26	Quality limiting factors of imaging endoscopes based on optical fiber bundles. Proceedings of SPIE, 2008, , .	0.8	3
27	Thermal Damage Analysis in Biological Tissues Under Optical Irradiation: Application to the Skin. International Journal of Thermophysics, 2009, 30, 1423-1437.	1.0	3
28	Photochemical model of photodynamic therapy applied to skin diseases by a topical photosensitizer. Proceedings of SPIE, 2009, , .	0.8	3
29	Modeling human corneal polarization properties and comparison with PS-OCT measurements. Proceedings of SPIE, 2009, , .	0.8	3
30	Polarized light Monte Carlo analysis of birefringence-induced depolarization in biological tissues. , 2013, , .		3
31	Study of the thermal distribution in vocal cords irradiated by an optical source for the treatment of voice disabilities. , 2006, 6078, 249.		2
32	Mueller Matrix Group Theory Formalism for Tissue Imaging Polarimetry Contrast Increase. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3339-42.	0.5	2
33	Study of optical microcavities with electromagnetically induced transparency for developing new photonic devices. , 2007, , .		2
34	Predictive analysis of photodynamic therapy applied to esophagus cancer. , 2008, , .		2
35	Optical characterization of lipid-based tissue phantoms. , 2011, , .		2
36	Effect of gold nanoparticles in the local heating of skin tumors induced by phototherapy. Proceedings of SPIE, 2011, , .	0.8	2

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37	Analysis of radiation parameters to control the effects of Nd:YAG laser surgery on gastric malignancies. Proceedings of SPIE, 2015, , .	0.8	2
38	Cytotoxicity analysis of oxazine 4-perchlorate fluorescence nerve potential clinical biomarker for guided surgery. Biomedical Optics Express, 2022, 13, 197.	1.5	2
39	Optical fibre devices based on mode conversion in tilted SPFG and LPFG. , 2005, , .		1
40	2D Mueller matrix approach for tissue complete polarization characterization. Proceedings of SPIE, 2007, , .	0.8	1
41	Optimum design of optical fiber bundles for medical imaging. , 2007, , .		1
42	Contrast limiting factors of optical fiber bundles for flexible endoscopy. Proceedings of SPIE, 2008, , .	0.8	1
43	Comparative analysis of tissue structure via Mueller matrix characterization of liquid crystals. Proceedings of SPIE, 2008, , .	0.8	1
44	Analysis of photodynamic therapy applied to skin disorders by a topical photosensitizer. , 2008, , .		1
45	Photochemical predictive analysis of photodynamic therapy with non-homogeneous topical photosensitizer distribution in dermatological applications. Proceedings of SPIE, 2010, , .	0.8	1
46	Optical phase conjugation by dynamic holography for wavefront restoration in turbid media. , 2010, , .		1
47	Effect of gold nanoparticles in the local heating of skin tumors induced by phototherapy. , 2011, , .		1
48	Multimode fiber-based transmitter for free space optical communications. Proceedings of SPIE, 2011, , .	0.8	1
49	Numerical modeling of light propagation in biological tissues: time-resolved 3D simulations based on light diffusion model and FDTD solution of Maxwell's equations. Proceedings of SPIE, 2011, , .	0.8	1
50	Influence of the photosensitizer photobleaching in the propagation of light during photodynamic therapy. , 2012, , .		1
51	Comparison and evaluation of the laser beam-shaping techniques. , 2013, , .		1
52	Detection of non-standard atmospheric effects in FSO systems. Proceedings of SPIE, 2013, , .	0.8	1
53	Predictive analysis of optical ablation in several dermatological tumoral tissues. , 2013, , .		1
54	Analysis of Low Intensity Laser Therapy as adjuvant to Photodynamic Therapy in Nonmelanoma Skin Cancer. , 2015, 2015, 6900-3.		1

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55	Light field transformation by intracavity four-wave mixing. , 2006, 6103, 201.		0
56	<title>Study of the interaction of the optical radiation with media by means of the group theory: description and applications</title>. , 2006, 6180, 524.		0
57	Estimation of the polarization rotation in biological tissues using a Mueller OCT system. , 2007, , .		0
58	<title>Useful nonlinear effects in optical microcavities and their applications</title>. , 2007, , .		0
59	A novel 3D modelling and simulation technique in thermotherapy predictive analysis on biological tissue. , 2007, , .		0
60	Fiber probes based optical techniques for biomedical diagnosis. Proceedings of SPIE, 2007, , .	0.8	0
61	Application of polarimetry group theory for characterization of biological tissues via mueller coherency matrix analysis. , 2009, 2009, 873-6.		0
62	Optical crosstalk impact in the contrast of fiber endoscopy images. , 2009, , .		0
63	Comparative study between ultrasonography and optical coherence tomography in interventional cardiology. Proceedings of SPIE, 2009, , .	0.8	0
64	Photochemical approach of photodynamic therapy applied to skin. , 2009, 2009, 278-81.		0
65	Photodynamic effects on basal cell carcinoma with topical Photosensitizer. , 2010, 2010, 2739-42.		0
66	Photochemical predictive analysis of photodynamic therapy in dermatology. , 2010, , .		0
67	Analysis of optical crosstalk in flexible imaging endoscopes based on multicore fibers. , 2010, , .		0
68	Maturity of human bone estimated by FTIR spectroscopy analysis: implications for osteoporosis. , 2010, , .		0
69	Thermal injury models for optical treatment of biological tissues: a comparative study. , 2010, 2010, 532-5.		0
70	Bending loss characterization under temperature variations of ITU-T G.657 optical fiber standard for its implementation in the last mile. , 2011, , .		0
71	Comparative study of the influence of scattering particles size on the polarimetric behavior of turbid media. , 2011, , .		0
72	Light propagation in biological media with gold nanoparticles embedded. , 2011, , .		0

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73	Photosensitizer nanocarriers modeling for photodynamic therapy applied to dermatological diseases. Proceedings of SPIE, 2011, , .	0.8	0
74	Photosensitizer fluorescence emission during photodynamic therapy applied to dermatological diseases. Proceedings of SPIE, 2011, , .	0.8	0
75	Comparative numerical analysis of magnetic and optical radiation propagation in adult human head. , 2013, , .		0
76	Predictive model for photodynamic therapy with gold nanoparticles as vehicle for the photosensitizer delivery. Proceedings of SPIE, 2013, , .	0.8	0
77	Analysis of thermal effects in endoscopic nanocarriers-based photodynamic therapy applied to esophageal diseases. Proceedings of SPIE, 2014, , .	0.8	0
78	Study for the clinical implantation of Photodynamic Therapy applied to Squamous Cell Carcinoma. , 2014, , .		0
79	Optical Neural Stimulation Modeling on Degenerative Neocortical Neural Networks. , 2015, , .		0
80	Analysis of gold nanoparticles as carriers for different molecular dye type photosensitizers in Photodynamic Therapy applied to carcinomas. , 2015, 2015, 5533-6.		0
81	Optical neural stimulation modeling on degenerative neocortical neural networks. , 2015, , .		0
82	Analysis of optical neural stimulation effects on neural networks affected by neurodegenerative diseases. , 2016, , .		0
83	Analysis of superficial fluorescence patterns in nonmelanoma skin cancer during photodynamic therapy by a dosimetric tool. , 2016, , .		0
84	Laser dosimetry planning tool for colonoscopic tumor resection. , 2016, , .		0
85	Analysis of nanoparticles optical propagation influence in biological tissue simulating phantoms. Proceedings of SPIE, 2017, , .	0.8	0
86	Optical characterization of tissue-simulating phantoms with microparticles by Digital Image Plane Holography. Proceedings of SPIE, 2017, , .	0.8	0
87	Fluorescence emission analysis of photodynamic therapy photosensitizer as a monitoring biomarker. Proceedings of SPIE, 2017, , .	0.8	0
88	Analysis of polarimetric parameters in strongly oriented biological tissues. Proceedings of SPIE, 2017, , .	0.8	0
89	3D optimal light distribution in brain tumors for photodynamic therapy. , 2021, , .		0
90	Optical propagation of partially coherent light through anisotropic biological tissues by Greenâ€™s functions. , 2021, , .		0

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91	Mueller Coherency matrix method for contrast image in tissue polarimetry. , 2007, , .		0
92	Colonoscopic laser surgery applied to controlled tumoral tissue removal. , 2014, , .		0
93	Photoacoustic Tomography predictive model applied to basocellular carcinoma for several sensor geometries. , 2014, , .		0
94	Numerical Modeling of Optical Radiation Propagation in a Realistic Model of Adult Human Head. IFMBE Proceedings, 2014, , 1679-1682.	0.2	0
95	Singlet oxygen prediction in gold nanoparticles-assisted PDT applied to a squamous cell carcinoma in the esophagus. , 2014, , .		0
96	Study of Photodynamic Therapy applied to the treatment and fluorescence-based diagnosis of infiltrative Basal Cell Carcinoma including gold nanoparticles. , 2016, , .		0
97	Optimized Endoscopic Laser Surgery in Colon Tumors. , 2016, , .		0
98	Predictive analysis of superficial fluorescence patterns in non-melanoma skin cancer during photodynamic therapy. Optica Pura Y Aplicada, 2016, 49, 7-15.	0.0	0
99	Predictive analysis of photodynamic treatment depth with different photosensitizer based nanocarriers. , 2016, 49, 75-82.		0
100	Laser surgery planning in gastrointestinal neoplasms by means of predictive modeling. Optica Pura Y Aplicada, 2016, 49, 195-203.	0.0	0
101	PPIX-based Photodynamic Therapy Monitoring by Fluorescence Patterns. , 2017, , .		0
102	Optical Properties Distribution in Nanobiophotonics Theranostic Applications. , 2017, , .		0
103	Considerations of education in the field of biophotonics in engineering: the experience of the subject fundamentals of biophotonics. , 2017, , .		0
104	Optical propagation analysis in photobioreactor measurements on cyanobacteria. , 2017, , .		0
105	Optical coherence propagation in biological tissues with significant scattering by Greenâ€™s functions. , 2018, , .		0
106	Porcine Tissues Characterization by Diffuse Reflectance Spectroscopy. , 2018, , .		0
107	Light scattering influence in cyanobacteria suspensions inside a photobioreactor. , 2018, , .		0
108	Nanoparticle-based photodynamic therapy on non-melanoma skin cancer. , 2018, , .		0

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109	Propagation of partially coherent light through scattering biological tissues modeled by Green's functions. , 2019, , .		0
110	In vivo animal image-guided surgery by fluorescence imaging applied to nerve. , 2019, , .		0
111	Light propagation in highly scattering biological tissues analyzed by Green's functions. , 2019, , .		0
112	Diffuse reflectance spectroscopy biomarkers for biological tissues characterization: application to ex-vivo animal tissues. , 2019, , .		0
113	Fluorescence imaging contrast in guided surgery on nerves measured in rats in vivo. , 2020, , .		0
114	Analysis of optical distribution in Photodynamic Therapy treatment applied to brain glioma. , 2020, , .		0
115	Modeling of optical propagation through anisotropic biological tissues using Green's functions. , 2020, , .		0
116	Optical radiation propagation based on Green's functions in biological skin tissues for enhanced coherence contrast. , 2020, , .		0
117	Histological Discrimination Using Fractal Analysis and Refractive Index Variance. , 2021, , .		0
118	Evaluation of laser-irradiated tissue ablation and thermal effects by optical detection. , 2021, , .		0