

Pedro M C Vieira

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

764
citations

687363

13
h-index

552781

26
g-index

71
all docs

71
docs citations

71
times ranked

975
citing authors

#	ARTICLE	IF	CITATIONS
1	True colour imaging of the fundus using a scanning laser ophthalmoscope. <i>Physiological Measurement</i> , 2002, 23, 1-10.	2.1	185
2	Tomographic reconstruction of the retina using a confocal scanning laser ophthalmoscope. <i>Physiological Measurement</i> , 1999, 20, 1-19.	2.1	111
3	Automated drusen detection in retinal images using analytical modelling algorithms. <i>BioMedical Engineering OnLine</i> , 2011, 10, 59.	2.7	54
4	A Deep Learning Based Object Identification System for Forest Fire Detection. <i>Fire</i> , 2021, 4, 75.	2.8	38
5	Bioproduction of gold nanoparticles for photothermal therapy. <i>Therapeutic Delivery</i> , 2016, 7, 287-304.	2.2	34
6	Serious games for upper limb rehabilitation: a systematic review. <i>Disability and Rehabilitation: Assistive Technology</i> , 2018, 13, 95-100.	2.2	29
7	In vivo cell tracking by scanning laser ophthalmoscopy: quantification of leukocyte kinetics. <i>Investigative Ophthalmology and Visual Science</i> , 1998, 39, 1879-87.	3.3	25
8	Polymeric scaffolds for enhanced stability of melanin incorporated in liposomes. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 268-274.	9.4	24
9	Atmospheric Trends of CO and CH ₄ from Extreme Wildfires in Portugal Using Sentinel-5P TROPOMI Level-2 Data. <i>Fire</i> , 2021, 4, 25.	2.8	23
10	Clinical Investigation of a True Color Scanning Laser Ophthalmoscope. <i>JAMA Ophthalmology</i> , 2001, 119, 819.	2.4	22
11	Quantifying changes in retinal circulation: the generation of parametric images from fluorescein angiograms. <i>Physiological Measurement</i> , 1998, 19, 165-180.	2.1	21
12	Continuous wave terahertz imaging for NDT: Fundamentals and experimental validation. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 172, 108904.	5.0	20
13	VisuaLeague: Player performance analysis using spatial-temporal data. <i>Multimedia Tools and Applications</i> , 2019, 78, 33069-33090.	3.9	17
14	Forest Fire Finder – DOAS application to long-range forest fire detection. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2299-2311.	3.1	13
15	Intelligent Chair Sensor – Classification and Correction of Sitting Posture. <i>IFMBE Proceedings</i> , 2014, , 1489-1492.	0.3	10
16	Monte Carlo simulation of laser beams interaction with the human eye using Geant4. <i>BioMedical Engineering OnLine</i> , 2014, 13, 58.	2.7	9
17	Are lesion features reproducible between 18F-FDG PET/CT images when acquired on analog or digital PET/CT scanners?. <i>European Radiology</i> , 2021, 31, 3071-3079.	4.5	9
18	Laser imaging of the retina. <i>British Journal of Ophthalmology</i> , 1999, 83, 1241-1245.	3.9	8

#	ARTICLE	IF	CITATIONS
19	Optimization of sitting posture classification based on user identification. , 2015, , .		8
20	Intelligent Chair Sensor. Communications in Computer and Information Science, 2013, , 182-191.	0.5	8
21	Analysing Player Performance with Animated Maps. , 2018, , .		7
22	System for Posture Evaluation and Correction - Development of a Second Prototype for an Intelligent Chair. , 2015, , .		6
23	Bee2Fire: A Deep Learning Powered Forest Fire Detection System. , 2020, , .		6
24	Sitting Posture Detection using Fuzzy Logic - Development of a Neuro-fuzzy Algorithm to Classify Postural Transitions in a Sitting Posture. , 2015, , .		6
25	Real-Time Integration of Segmentation Techniques for Reduction of False Positive Rates in Fire Plume Detection Systems during Forest Fires. Remote Sensing, 2022, 14, 2701.	4.0	6
26	Pupillometry: Development of Equipment for Studies of Autonomic Nervous System. International Federation for Information Processing, 2012, , 553-562.	0.4	4
27	Intelligent Chair Sensor. International Journal of System Dynamics Applications, 2014, 3, 65-80.	0.3	4
28	DNA damage induced by carbon ions (C^{3+}) beam accessed by independent component analysis of infrared spectra. International Journal of Radiation Biology, 2014, 90, 344-350.	1.8	4
29	New Application: Adaptation of Toys for Children with Multiple Disabilities. Procedia Technology, 2014, 17, 351-358.	1.1	4
30	Optical Design of a Compact Image Acquisition Device for Mobile Diabetic Retinopathy Screening. , 2018, , .		4
31	Bulk Density of Shrub Types and Tree Crowns to Use with Forest Inventories in the Iberian Peninsula. Forests, 2022, 13, 555.	2.1	4
32	Singular Spectrum Analysis of Pupillometry Data. Identification of the Sympathetic and Parasympathetic Activity. Procedia Technology, 2014, 17, 273-280.	1.1	3
33	Development and clinical application of Vertebral Metrics: using a stereo vision system to assess the spine. Medical and Biological Engineering and Computing, 2018, 56, 1435-1446.	2.8	3
34	Probing deep tissues with laser-induced thermotherapy using near-infrared light. Lasers in Medical Science, 2020, 35, 43-49.	2.1	3
35	Development of a Smartphone-based Pupillometer for Neuro-ophthalmological Diseases Screening. , 2020, , .		3
36	Quantified Explainability: Convolutional Neural Network Focus Assessment in Arrhythmia Detection. BioMedInformatics, 2022, 2, 124-138.	2.0	3

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37	The increase of sustainability in cylinder manufacturing. Clean Technologies and Environmental Policy, 2010, 12, 83-86.	4.1	2
38	Golden glazes analysis by PIGE and PIXE techniques. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3060-3062.	1.4	2
39	Wavefront shaping using a deformable mirror for focusing inside optical tissue phantoms. , 2014, , .		2
40	Low Cost Inertial Measurement Unit for Motion Capture in Biomedical Applications. IFIP Advances in Information and Communication Technology, 2016, , 151-158.	0.7	2
41	Animated maps for analysis of personal performance in games. , 2017, , .		2
42	A New Compact Optical System Proposal and Image Quality Comparison Against Other Affordable Non-mydrriatic Fundus Cameras. Communications in Computer and Information Science, 2019, , 26-48.	0.5	2
43	Development and Validation of Online Monitoring Techniques for Composite Overwrapped Pressure Vessels. , 2010, , .		1
44	Optical simulation of laser beam phase-shaping focusing optimization in biological tissues. Proceedings of SPIE, 2013, , .	0.8	1
45	The influence of wearing a wallet in your sitting posture " A quantitative study using an intelligent chair. , 2017, , .		1
46	Towards the Development and Validation of a Smartphone-Based Pupillometer for Neuro-Ophthalmological Diseases Screening. Communications in Computer and Information Science, 2021, , 39-52.	0.5	1
47	Evaluation of Three Iterative Algorithms for Phase Modulation Regarding Their Application in Concentrating Light Inside Biological Tissues for Laser Induced Photothermal Therapy. Photonics, 2021, 8, 355.	2.0	1
48	Left Ventricle Computational Model based on Patients Three-dimensional MRI. , 2020, , .		1
49	Real-Time Fuzzy Monitoring of Sitting Posture: Development of a New Prototype and a New Posture Classification Algorithm to Detect Postural Transitions. Communications in Computer and Information Science, 2015, , 424-439.	0.5	1
50	Light Hazard Measurement on an Ophthalmic Instrument. , 2019, , .		1
51	TomoSim: A Tomographic Simulator for Differential Optical Absorption Spectroscopy. Drones, 2021, 5, 3.	4.9	1
52	Optical design of a variable angle irradiation system for skin cancer laser phototherapy. EPJ Web of Conferences, 2020, 238, 12010.	0.3	1
53	<title>Digital image processing of fundus images using scanning laser ophthalmoscopic images</title>. , 1996, , .		0
54	Wavelet analysis of the autonomic outflow of the pupil's variation in normal subjects, given stimuli. , 2011, , .		0

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55	Development of an optical simulator of the human eye. , 2013, , .		0
56	Vertebral Metrics: Scapula Evaluation. Procedia Technology, 2014, 17, 256-264.	1.1	0
57	Hybrid nanoparticles for photodynamic and targeted cancer therapy: Cytotoxicity studies. Toxicology Letters, 2015, 238, S204.	0.8	0
58	Semi-automatic Tool to Identify Heterogeneity Zones in LGE-CMR and Incorporate the Result into a 3D Model of the Left Ventricle. Lecture Notes in Computer Science, 2020, , 238-246.	1.3	0
59	Comparative Analysis of Short-range Wireless Technologies for m-Health: Newborn Monitoring Case Study. , 2021, , .		0
60	Advances in Image Processing Techniques for Drusens Detection and Quantification in Fundus Images. IFIP Advances in Information and Communication Technology, 2010, , 299-307.	0.7	0
61	Variability and Repeatability Tests of ARMD Assessment Using the AD3RI Tool. International Federation for Information Processing, 2012, , 583-590.	0.4	0
62	A Macro View Model of a Bilirubin Monitoring System for Newborns. , 2020, , .		0
63	Development of a Gas Sensor for Eucalyptol Supervision: A Supporting Tool for Extreme Wildfire Management. , 2021, 5, .		0