

Joaquim Mendes

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

144
papers

971
citations

17
h-index

25
g-index

193
ext. papers

1,285
ext. citations

2.3
avg, IF

4.57
L-index

#	Paper	IF	Citations
144	ISO 2631 Vibration Analysis in Portuguese Alfa Pendular Trains. <i>Lecture Notes in Mechanical Engineering</i> , 2023 , 36-46	0.4	0
143	Forehead, Temple and Wrist Temperature Assessment of Ethnic Groups using Infrared Technology.. <i>Medical Engineering and Physics</i> , 2022 , 102, 103777	2.4	0
142	Analyzing the Influence of Thermal NDT Parameters on Test Performance. <i>Russian Journal of Nondestructive Testing</i> , 2021 , 57, 727-737	0.7	0
141	Evaluation of Tibia Bone Healing by Infrared Thermography: A Case Study. <i>Journal of Multidisciplinary Healthcare</i> , 2021 , 14, 3161-3175	2.8	0
140	Electromyographic assessment of blink reflex throughout the transition from responsiveness to unresponsiveness during induction with propofol and remifentanyl. <i>Journal of Clinical Monitoring and Computing</i> , 2021 , 35, 1279-1289	2	0
139	Tooth Position in Wind Instrument Players: Dentofacial Cephalometric Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	1
138	Role of thermography in the assessment of temporomandibular disorders and other musculoskeletal conditions: A systematic review. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021 , 235, 1099-1112	1.7	0
137	Comparison of machine learning strategies for infrared thermography of skin cancer. <i>Biomedical Signal Processing and Control</i> , 2021 , 69, 102872	4.9	5
136	Antimicrobial profile of a dental implant abutment coating to prevent adhesion and migration of bacteria and screw loosening. <i>Dental Materials</i> , 2021 , 37, e493-e501	5.7	1
135	Implementation of Neural Networks to Frontal Electroencephalography for the Identification of the Transition Responsiveness/Unresponsiveness During Induction of General Anesthesia. <i>Irbm</i> , 2021 , 42, 390-397	4.8	0
134	Meta-Analysis and Systematic Review of the Application of Machine Learning Classifiers in Biomedical Applications of Infrared Thermography. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 842	2.6	7
133	The Challenge of Dental Education After COVID-19 Pandemic - Present and Future Innovation Study Design. <i>Inquiry (United States)</i> , 2021 , 58, 469580211018293	1.4	0
132	Raynaud's Phenomenon Impact on Quotidian Quality of Life. <i>International Journal of Online and Biomedical Engineering</i> , 2020 , 16, 88	0.8	0
131	Craniofacial morphology of wind and string instrument players: a cephalometric study. <i>BMC Medical Imaging</i> , 2020 , 20, 57	2.9	2
130	Infrared thermography of the crãio-cervico-mandibular complex in wind and string instrumentalists. <i>International Archives of Occupational and Environmental Health</i> , 2020 , 93, 645-658	3.2	5
129	Thermographic assessment of vital and non-vital anterior teeth: A comparative study. <i>Infrared Physics and Technology</i> , 2020 , 106, 103232	2.7	0
128	Adhesive dentistry sensory stimulus technique as a neuromechanism for the treatment of orofacial pain associated to temporomandibular disorders: Case study. <i>Journal of Oral Biology and Craniofacial Research</i> , 2020 , 10, 6-12	2.6	0

127	TOF-Watch NMB Monitoring Misleading Display Output During Moderate Neuromuscular Blockade. <i>IFMBE Proceedings</i> , 2020 , 768-775	0.2	
126	Usefulness of the Blink Reflex to Assess the Effect of Propofol During Induction of Anesthesia in Surgical Patients. <i>IFMBE Proceedings</i> , 2020 , 1057-1063	0.2	
125	Reliability of infrared image analysis based on anatomical landmarks. <i>Infrared Physics and Technology</i> , 2020 , 104, 103149	2.7	0
124	Performance of blink reflex in patients during anesthesia induction with propofol and remifentanyl: prediction probabilities and multinomial logistic analysis. <i>BioMedical Engineering OnLine</i> , 2020 , 19, 84	4.1	
123	Detecting Vasodilation as Potential Diagnostic Biomarker in Breast Cancer Using Deep Learning-Driven Thermomics. <i>Biosensors</i> , 2020 , 10,	5.9	10
122	Novel laser-assisted glass frit encapsulation for long-lifetime perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20037-20046	13	10
121	Orofacial Trauma on the Anterior Zone of a Trumpet's Player Maxilla: Concept of the Oral Rehabilitation-A Case Report. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	0
120	Patterns of Hysteresis Between Induction and Emergence of Neuroanesthesia Are Present in Spinal and Intracranial Surgeries. <i>Journal of Neurosurgical Anesthesiology</i> , 2020 , 32, 82-89	3	6
119	The Functional Interdependence of Wind Instrumentalists's Embouchure and Their Craniofacial Features. <i>International Journal of Online and Biomedical Engineering</i> , 2019 , 15, 17	0.8	1
118	Are there any solutions for improving the cleft area hygiene in patients with cleft lip and palate? A systematic review. <i>International Journal of Dental Hygiene</i> , 2019 , 17, 130-141	2.6	7
117	A new classification of wind instruments: Orofacial considerations. <i>Journal of Oral Biology and Craniofacial Research</i> , 2019 , 9, 268-276	2.6	5
116	Salt content in pre-packaged foods available in Portuguese market. <i>Food Control</i> , 2019 , 106, 106670	6.2	6
115	Bilateral assessment of body core temperature through axillar, tympanic and inner canthi thermometers in a young population. <i>Physiological Measurement</i> , 2019 , 40, 094001	2.9	10
114	The role of AI classifiers in skin cancer images. <i>Skin Research and Technology</i> , 2019 , 25, 750-757	1.9	7
113	Biomedical musculoskeletal applications of infrared thermal imaging on arm and forearm: A systematic review. <i>Journal of Thermal Biology</i> , 2019 , 82, 164-177	2.9	9
112	Skin neoplasms dynamic thermal assessment 2019 ,		1
111	Reliability of Forearm Skin Thermal Assessment During Handgrip Exercise. <i>Studies in Systems, Decision and Control</i> , 2019 , 447-455	0.8	1
110	Distinguishing melanocytic nevi from melanomas using static and dynamic infrared thermal imaging. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2019 , 33, 1700-1705	4.6	9

109	Skin temperature of the foot: comparing transthyretin Familial Amyloid Polyneuropathy and Diabetic Foot patients. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2019 , 7, 504-511	0.9	1
108	Dimethylaminoparthenolide reduces the incidence of dysplasia and ameliorates a wasting syndrome in HPV16-transgenic mice. <i>Drug Development Research</i> , 2019 , 80, 824-830	5.1	7
107	Evaluation of Bispectral Index time delay in response to anesthesia induction: an observational study. <i>Brazilian Journal of Anesthesiology (Elsevier)</i> , 2019 , 69, 377-382	0.2	2
106	Relationship between skin temperature and soft tissue hardness in diabetic patients: an exploratory study. <i>Physiological Measurement</i> , 2019 , 40, 074007	2.9	3
105	Integrating piezoresistive sensors on the embouchure analysis of the lower lip in single reed instrumentalists: implementation of the lip pressure appliance (LPA). <i>Clinical and Experimental Dental Research</i> , 2019 , 5, 491-496	1.9	5
104	Is it possible myogenic temporomandibular dysfunctions change the facial thermal imaging?. <i>Clinical and Laboratorial Research in Dentistry</i> , 2019 ,	0.5	3
103	Diabetic foot monitoring using dynamic thermography and AI classifiers 2019 ,		9
102	Wind Instrumentalist Embouchure and the Applied Forces on the Perioral Structures. <i>Open Dentistry Journal</i> , 2019 , 13, 107-114	0.8	6
101	Craniofacial Morphology of Double Reed Instrument Players and Musical Performance. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2019 , 93-103	0.3	
100	The Application of Infrared Thermography as a Quantitative Sensory Measure of the DC/TMD. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2019 , 330-340	0.3	
99	Towards an Automated Analysis of Forearm Thermal Images During Handgrip Exercise. <i>Lecture Notes in Networks and Systems</i> , 2019 , 498-506	0.5	1
98	Handgrip Evaluation: Endurance and Handedness Dominance. <i>Lecture Notes in Networks and Systems</i> , 2019 , 507-516	0.5	1
97	Impact of the architecture of dye sensitized solar cell-powered electrochromic devices on their photovoltaic performance and the ability to color change. <i>Solar Energy</i> , 2019 , 182, 22-28	6.8	8
96	Non-Destructive Infrared Lock-in Thermal Tests: Update on the Current Defect Detectability. <i>Russian Journal of Nondestructive Testing</i> , 2019 , 55, 772-784	0.7	6
95	Biomedical Applications of Infrared Thermal Imaging: Current State of Machine Learning Classification. <i>Proceedings (mdpi)</i> , 2019 , 27, 46	0.3	11
94	Rocuronium Continuous Infusion for Profound Neuromuscular Blockade: A Systematic Review and Meta-analysis. <i>Clinical Neuropharmacology</i> , 2019 , 42, 203-210	1.4	3
93	Do we have today a reliable method to detect the moment of loss of consciousness during induction of general anaesthesia?. <i>Revista Española De Anestesiología Y Reanimación</i> , 2019 , 66, 93-103	0.9	6
92	Development of hermetic glass frit encapsulation for perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 074005	3	21

91	Antero-cervical thermophysiological characterization of obstructive sleep apnea patients. <i>Sleep and Breathing</i> , 2018 , 22, 1111-1116	3.1	3
90	Recent use of medical infrared thermography in skin neoplasms. <i>Skin Research and Technology</i> , 2018 , 24, 587-591	1.9	19
89	Designing the mechanical frame of an active exoskeleton for gait assistance. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401774366	1.2	3
88	Virtual reality exercise on a home-based phase III cardiac rehabilitation program, effect on executive function, quality of life and depression, anxiety and stress: a randomized controlled trial. <i>Disability and Rehabilitation: Assistive Technology</i> , 2018 , 13, 112-123	1.8	30
87	Skin Temperature Bilateral Differences at Upper Limbs and Joints in Healthy Subjects. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018 , 1005-1010	0.3	
86	Skin Temperature of the Foot: A Comparative Study Between Familial Amyloid Polyneuropathy and Diabetic Foot Patients. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018 , 1048-1052	0.3	
85	Towards the Automatic Detection of Hand Fingertips and Phalanges in Thermal Images. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018 , 1053-1062	0.3	2
84	Automatic Classification of Ulcers Through Visual Spectrum Image. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018 , 297-305	0.3	1
83	A Prosthodontic Treatment Plan for a Saxophone Player: A Conceptual Approach. <i>Dentistry Journal</i> , 2018 , 6,	3.1	3
82	New Instrument for Oral Hygiene of Children with Cleft Lip and Palate. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 576	2.6	2
81	Wind Instrumentalists and Temporomandibular Disorder: From Diagnosis to Treatment. <i>Dentistry Journal</i> , 2018 , 6,	3.1	8
80	Gesture technique analysis of the craniocervical mandibular complex in string and wind instrumentalists. <i>Physical Medicine and Rehabilitation Research</i> , 2018 , 3,	0	2
79	Towards the Diabetic Foot Ulcers Classification with Infrared Thermal Images 2018 ,		8
78	Thermography in Animal Models of Cancer 2018 , 132-158		
77	Thermographic Evaluation of the Saxophonists's Embouchure. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018 , 1069-1078	0.3	
76	Classification and Decision Making of Medical Infrared Thermal Images. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018 , 79-104	0.3	8
75	Skin Temperature in Diabetic Foot Patients: A Study Focusing on the Angiosome Concept. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018 , 1035-1040	0.3	1
74	Efeitos imediatos do exerc�cio de vibra�o de corpo inteiro na simetria t�mica das pernas e tornozelos. <i>Revista Hospital Universit�rio Pedro Ernesto</i> , 2018 , 17, 22-29		1

73	Development and Implementation of an Intraoral Device for Occlusal Stability during Sports Performance: A Case Report. <i>Dentistry Journal</i> , 2018 , 6,	3.1	1
72	Oral hygiene of children with cleft lip and palate: Efficacy of the cleft toothbrush - A designed add-on to regular toothbrushes. <i>International Journal of Paediatric Dentistry</i> , 2018 , 29, 213	3.1	3
71	Thermographic Study of the Orofacial Structures Involved in Clarinetists Musical Performance. <i>Dentistry Journal</i> , 2018 , 6,	3.1	1
70	Combined Acquisition Method of Image and Signal Technique (CAMIST) for Assessment of Temporomandibular Disorders in Performing Arts Medicine. <i>Medical Problems of Performing Artists</i> , 2018 , 33, 205-212	0.6	5
69	Skin temperature of the foot: Reliability of infrared image analysis based in the angiosome concept. <i>Infrared Physics and Technology</i> , 2018 , 92, 402-408	2.7	6
68	Low temperature hermetic laser-assisted glass frit encapsulation of soda-lime glass substrates. <i>Optics and Lasers in Engineering</i> , 2017 , 96, 107-116	4.6	14
67	Temperature profiles obtained in thermoelastic stress test for different frequencies. <i>International Journal of Structural Integrity</i> , 2017 , 8, 51-62	1	0
66	Kinect system in home-based cardiovascular rehabilitation. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017 , 231, 40-47	1.7	15
65	Infrared Thermography in Water Sports 2017 , 137-157		2
64	A review on the application of medical infrared thermal imaging in hands. <i>Infrared Physics and Technology</i> , 2017 , 85, 315-323	2.7	17
63	The effect of virtual reality on a home-based cardiac rehabilitation program on body composition, lipid profile and eating patterns: A randomized controlled trial. <i>European Journal of Integrative Medicine</i> , 2017 , 9, 69-78	1.7	10
62	Infrared Thermography in Swimming. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2017 , 199-219	0.3	1
61	Thermography in Animal Models of Cancer. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2017 , 237-263	0.3	
60	Relationship between production cycles and noise patterns in loading and transport operations in quarries 2016 , 485-490		1
59	Towards a detailed anthropometric body characterization using the Microsoft Kinect. <i>Technology and Health Care</i> , 2016 , 24, 251-65	1.1	4
58	Use of infrared thermography for the diagnosis and grading of sprained ankle injuries. <i>Infrared Physics and Technology</i> , 2016 , 76, 530-541	2.7	17
57	Long-term exercise training as a modulator of mammary cancer vascularization. <i>Biomedicine and Pharmacotherapy</i> , 2016 , 81, 273-280	7.5	28
56	The influence of two different drug infusion profiles on the pharmacodynamics model performance. <i>IFMBE Proceedings</i> , 2015 , 874-880	0.2	0

55	Dynamic monitoring of railway track displacement using an optical system. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2015 , 229, 280-290	1.4	17
54	Sensing the force during laryngoscopy. <i>Anaesthesia</i> , 2015 , 70, 761	6.6	
53	On-line monitoring system for tracks 2015 ,		5
52	Comparison of Different Image Enhancing Techniques for Medical Thermal Images. <i>Journal of Medical Imaging and Health Informatics</i> , 2015 , 5, 709-714	1.2	1
51	Weighing in motion and wheel defect detection of rolling stock 2015 ,		5
50	Application of Infrared Thermal Imaging in a Violinist with Temporomandibular Disorder. <i>Medical Problems of Performing Artists</i> , 2015 , 30, 251-4	0.6	10
49	An Agent Methodology for Processes, the Environment, and Services 2015 , 37-53		2
48	Qigong as a Traditional Vegetative Biofeedback Therapy: Long-Term Conditioning of Physiological Mind-Body Effects. <i>BioMed Research International</i> , 2015 , 2015, 531789	3	3 ¹
47	A procedure for a mechanical evaluation of an undefined osteo-protective material. <i>Accident Analysis and Prevention</i> , 2015 , 75, 285-91	6.1	4
46	Advances in Fault-Tolerant Multi-Agent Systems 2015 , 7006-7017		
45	Laser assisted dye-sensitized solar cell sealing: From small to large cells areas. <i>Journal of Renewable and Sustainable Energy</i> , 2014 , 6, 011208	2.5	6
44	2014 ,		4
43	The effect of different vibration frequencies in the skin temperature in healthy subjects 2014 ,		2
42	Development of a respiratory rate monitoring device for mice anesthesia induction chamber 2014 ,		1
41	A symbiotic simulation platform for agent-based quadcopters 2014 ,		1
40	Study and analysis of a cooling system for draught drinks. <i>International Journal of Refrigeration</i> , 2014 , 45, 198-209	3.8	
39	Identifying the Nature of Fouling Layers by Online Monitoring of the Propagation of Vibrations Along the Deposition Surface. <i>Heat Transfer Engineering</i> , 2014 , 35, 251-257	1.7	7
38	Portable Interface and Local Service Manager. <i>Procedia Computer Science</i> , 2014 , 27, 67-73	1.6	0

37	Three-dimensional analysis of the cranio-cervico-mandibular complex during piano performance. <i>Medical Problems of Performing Artists</i> , 2014 , 29, 150-4	0.6	5
36	Wearable sensor networks supported by mobile devices for fall detection 2014 ,		9
35	A STATISTICAL STUDY REGARDING THE STATE-OF-THE-ART OF ACTIVE MOTION-ORIENTED ASSISTIVE DEVICES. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2014 , 26, 1450047	0.6	1
34	Recent application of infrared thermography in work-related musculoskeletal disorders 2014 , 737-741		1
33	Sensing Bluetooth Mobility Data: Potentials and Applications. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 419-431	0.4	2
32	A influência do bruxismo na posição postural da cabeça. <i>Revista Portuguesa De Estomatologia, Medicina Dentaria E Cirurgia Maxilofacial</i> , 2013 , 54, 137-142	0.6	
31	Gas solute movement in packed columns—a remote control experiment. <i>Education for Chemical Engineers</i> , 2013 , 8, e94-e104	2.4	3
30	Ultrasonographic, thermographic and histologic evaluation of MNU-induced mammary tumors in female Sprague-Dawley rats. <i>Biomedicine and Pharmacotherapy</i> , 2013 , 67, 771-6	7.5	19
29	Highly focalised thermotherapy using a ferrimagnetic cement in the treatment of a melanoma mouse model by low temperature hyperthermia. <i>International Journal of Hyperthermia</i> , 2013 , 29, 121-323	3.7	8
28	Haptic device demo using temperature feedback 2013 ,		1
27	Multi-resolution simulation of taxi services on airport terminal's curbside 2013 ,		2
26	Development of a Kinect Rehabilitation System. <i>International Journal of Online and Biomedical Engineering</i> , 2013 , 9, 38	0.8	3
25	Laser assisted glass frit sealing of dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 43-49	6.4	48
24	Glass-Glass Laser-Assisted Glass Frit Bonding. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2012 , 2, 1949-1956	1.7	14
23	Assessment of Qigong-related effects by infrared thermography: a case study. <i>Zhong Xi Yi Jie He Xue Bao</i> , 2012 , 10, 663-6		12
22	Multi-usage of microwave Doppler radar in pervasive healthcare systems for elderly 2011 ,		8
21	An agent methodology for processes, the environment, and services 2011 ,		3
20	Wheelchair user's cardiovascular evaluation system to support physiotherapy sessions 2011 ,		1

19	Quantile-copula density forecast for wind power uncertainty modeling 2011 ,		18
18	Pervasive sensing and computing for wheelchairs users health assessment 2011 ,		2
17	Cardio-respiratory and daily activity monitor based on FMCW Doppler radar embedded in a wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011</i> , 2011, 1917-20	0.9	19
16	Carbon Dioxide Absorption in a Membrane Contactor with Color Change. <i>Journal of Chemical Education, 2010</i> , 87, 1377-1379	2.4	3
15	Physiological Parameters Measurement Based on Wheelchair Embedded Sensors and Advanced Signal Processing. <i>IEEE Transactions on Instrumentation and Measurement, 2010</i> , 59, 2564-2574	5.2	63
14	Dual Channel Smart Sensor Embedded in a Wheelchair for Heart Rate and Autonomic Nervous System Monitoring. <i>Mechatronic Systems and Control, 2010</i> , 7,	1.6	3
13	Monitoring cleaning-in-place of shampoo films using nanovibration technology. <i>Sensors and Actuators B: Chemical, 2009</i> , 136, 376-382	8.5	18
12	Acquisition and analysis of 3D mandibular movement using a device based on electromagnetic sensors and a neural network. <i>Journal of Medical Engineering and Technology, 2009</i> , 33, 437-41	1.8	6
11	Unobstrusive heart rate and respiratory rate monitor embedded on a wheelchair 2009 ,		27
10	A Remote Laboratory in Engineering Measurement. <i>IEEE Transactions on Industrial Electronics, 2009</i> , 56, 4836-4843	8.9	80
9	Automation in anesthesia: computer controlled propofol infusion and data acquisition. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008</i> , 2008, 5543-7	0.9	2
8	A prototype system for acquisition and analysis of 3D mandibular movement. <i>International Journal of Mechanics and Materials in Design, 2008</i> , 4, 173-180	2.5	4
7	Using nanovibrations to monitor biofouling. <i>Biotechnology and Bioengineering, 2008</i> , 99, 1407-15	4.9	38
6	Monitoring Deposit Build-up using a Novel Mechatronic Surface Sensor (MSS). <i>Food and Bioproducts Processing, 2006</i> , 84, 366-370	4.9	17
5	Printed board positioning system using impact drive mechanism		4
4	Analyzing the Influence of the Stimulation Duration in the Transient Thermal Test âExperimental and FEM Simulation. <i>Experimental Techniques,1</i>	1.4	0
3	Classifying Skin Neoplasms with Infrared Thermal Images		4
2	Lock-in thermal test with corrected optical stimulation. <i>Quantitative InfraRed Thermography Journal,1-22</i> .1		1

1 Thermography applied in the diagnostic assessment of bone fractures. *Research on Biomedical Engineering*,1

1.2