Juan Manuel Melchor

List of Publications by Year
in descending order

53 papers	2,719 citations	361045 20 h-index	233125 45 g-index
54 all docs	54 docs citations	54 times ranked	4559 citing authors

#	Article	IF	Citations
1	Torsional wave elastography to assess the mechanical properties of the cornea. Scientific Reports, 2022, 12, 8354.	1.6	7
2	Viscoelastic model characterization of human cervical tissue by torsional waves. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 115, 104261.	1.5	5
3	Braiding Thermoplastic and Glass Fibers in Composite Dental Post Improves Their Mechanical Compatibility, In Vitro Experiment. Materials, 2021, 14, 2294.	1.3	3
4	Modeling Interactions among Migration, Growth and Pressure in Tumor Dynamics. Mathematics, 2021, 9, 1376.	1.1	2
5	Historical exposure to persistent organic pollutants and cardiovascular disease: A 15-year longitudinal analysis focused on pharmaceutical consumption in primary care. Environment International, 2021, 156, 106734.	4.8	12
6	Lung Ultrasound, Clinical and Analytic Scoring Systems as Prognostic Tools in SARS-CoV-2 Pneumonia: A Validating Cohort. Diagnostics, 2021, 11, 2211.	1.3	4
7	A Numerical Approach to the Magnetic Nanoparticle Hyperthermia. , 2021, , .		1
8	Biomechanical Finite Element Method Model of the Proximal Carpal Row and Experimental Validation. Frontiers in Physiology, 2021, 12, 749372.	1.3	4
9	A Preliminary Study on the Safety of Elastography during Pregnancy: Hypoacusia, Anthropometry, and Apgar Score in Newborns. Diagnostics, 2020, 10, 967.	1.3	3
10	Characterization of non-linear mechanical behavior of the cornea. Scientific Reports, 2020, 10, 11549.	1.6	15
11	Hyperelastic Ex Vivo Cervical Tissue Mechanical Characterization. Sensors, 2020, 20, 4362.	2.1	8
12	Viscoelastic Biomarkers of Ex Vivo Liver Samples via Torsional Wave Elastography. Diagnostics, 2020, 10, 111.	1.3	5
13	Why Are Viscosity and Nonlinearity Bound to Make an Impact in Clinical Elastographic Diagnosis?. Sensors, 2020, 20, 2379.	2.1	47
14	Nonlinear Ultrasonics for Early Damage Detection. , 2020, , 697-732.		0
15	Biomechanical Constitutive Model Identification. Mathematical Problems in Engineering, 2019, 2019, 1-2.	0.6	0
16	In Vivo Measurement of Cervical Elasticity on Pregnant Women by Torsional Wave Technique: A Preliminary Study. Sensors, 2019, 19, 3249.	2.1	12
17	Kelvinâ€"Voigt Parameters Reconstruction of Cervical Tissue-Mimicking Phantoms Using Torsional Wave Elastography. Sensors, 2019, 19, 3281.	2.1	15
18	High-Resolution Strain Measurement for Biomechanical Parameters Assessment in Native and Decellularized Porcine Vessels. Mathematical Problems in Engineering, 2019, 2019, 1-14.	0.6	0

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19	Nonlinear torsional wave propagation in cylindrical coordinates to assess biomechanical parameters. Journal of Sound and Vibration, 2019, 445, 103-116.	2.1	4
20	Damage prediction via nonlinear ultrasound: A micro-mechanical approach. Ultrasonics, 2019, 93, 145-155.	2.1	11
21	In-bioreactor ultrasonic monitoring of 3D culture human engineered cartilage. Sensors and Actuators B: Chemical, 2018, 266, 841-852.	4.0	7
22	Nonlinear Classical Elasticity Model for Materials with Fluid and Matrix Phases. Mathematical Problems in Engineering, 2018, 2018, 1-7.	0.6	2
23	Logical Inference Framework for Experimental Design of Mechanical Characterization Procedures. Sensors, 2018, 18, 2984.	2.1	3
24	Transient Elastography to Assess the Cervical Ripening during Pregnancy: A Preliminary Study. Ultraschall in Der Medizin, 2017, 38, 395-402.	0.8	40
25	Poly(ethylmethacrylate-co-diethylaminoethyl acrylate) coating improves endothelial re-population, bio-mechanical and anti-thrombogenic properties of decellularized carotid arteries for blood vessel replacement. Scientific Reports, 2017, 7, 407.	1.6	16
26	Data Quality in Rare Cancers Registration: The Report of the RARECARE Data Quality Study. Tumori, 2017, 103, 22-32.	0.6	26
27	Torsional Ultrasound Sensor Optimization for Soft Tissue Characterization. Sensors, 2017, 17, 1402.	2.1	14
28	Performance Study of a Torsional Wave Sensor and Cervical Tissue Characterization. Sensors, 2017, 17, 2078.	2.1	22
29	Torsion ultrasonic sensor for tissue mechanical characterization. , 2016, , .		2
30	Model-based damage evaluation of layered CFRP structures. , 2015, , .		3
31	Single-transmitter setup on nonlinear mixing to measure acoustic nonlinearity of first order. , 2015, , .		0
32	Nonlinear Ultrasonics for Early Damage Detection. Advances in Civil and Industrial Engineering Book Series, 2015, , 171-206.	0.2	2
33	Preferences of Caregivers and Patients Regarding Opioid Analgesic Use in Terminal Care. Pain Medicine, 2014, 15, 577-587.	0.9	12
34	Descriptive epidemiology of Kaposi sarcoma in Europe. Report from the RARECARE project. Cancer Epidemiology, 2014, 38, 670-678.	0.8	174
35	Torsional ultrasonic transducer computational design optimization. Ultrasonics, 2014, 54, 1950-1962.	2.1	29
36	Methodological aspects of estimating rare cancer prevalence in Europe: The experience of the RARECARE project. Cancer Epidemiology, 2013, 37, 850-856.	0.8	21

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37	Rare neuroendocrine tumours: Results of the surveillance of rare cancers in Europe project. European Journal of Cancer, 2013, 49, 2565-2578.	1.3	91
38	Descriptive epidemiology of sarcomas in Europe: Report from the RARECARE project. European Journal of Cancer, 2013, 49, 684-695.	1.3	519
39	Dispersive model selection and reconstruction for tissue culture ultrasonic monitoring. , 2012, , .		3
40	A MULTISCALE MECHANICAL MODEL FOR THE CERVICAL TISSUE. Journal of Biomechanics, 2012, 45, S475.	0.9	0
41	Burden of testicular, paratesticular and extragonadal germ cell tumours in Europe. European Journal of Cancer, 2012, 48, 159-169.	1.3	37
42	Rare cancers of the head and neck area in Europe. European Journal of Cancer, 2012, 48, 783-796.	1.3	55
43	Descriptive epidemiology of malignant mucosal and uveal melanomas and adnexal skin carcinomas in Europe. European Journal of Cancer, 2012, 48, 1167-1175.	1.3	71
44	Incidence and survival of rare urogenital cancers in Europe. European Journal of Cancer, 2012, 48, 456-464.	1.3	132
45	Incidence, prevalence and survival of patients with rare epithelial digestive cancers diagnosed in Europe in 1995â€"2002. European Journal of Cancer, 2012, 48, 1417-1424.	1.3	42
46	Epidemiology of glial and non-glial brain tumours in Europe. European Journal of Cancer, 2012, 48, 1532-1542.	1.3	248
47	Embryonal cancers in Europe. European Journal of Cancer, 2012, 48, 1425-1433.	1.3	39
48	Carcinoma of endocrine organs: Results of the RARECARE project. European Journal of Cancer, 2012, 48, 1923-1931.	1.3	43
49	Rare thoracic cancers, including peritoneum mesothelioma. European Journal of Cancer, 2012, 48, 949-960.	1.3	61
50	Invasive extramammary Pagetâ€™s disease and the risk for secondary tumours in Europe. European Journal of Surgical Oncology, 2012, 38, 214-221.	0.5	63
51	Incidence, survival and prevalence of myeloid malignancies in Europe. European Journal of Cancer, 2012, 48, 3257-3266.	1.3	158
52	Rare cancers are not so rare: The rare cancer burden in Europe. European Journal of Cancer, 2011, 47, 2493-2511.	1.3	573
53	The Burden of Rare Cancers in Europe. Advances in Experimental Medicine and Biology, 2010, 686, 285-303.	0.8	52