

Renato Natal Jorge

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.

261
papers

6,396
citations

44
h-index

73
g-index

302
ext. papers

7,067
ext. citations

2.7
avg, IF

5.93
L-index

#	Paper	IF	Citations
261	On the Management of Maternal Pushing During the Second Stage of Labor: A Biomechanical Study Considering Passive Tissue Fatigue Damage Accumulation.. <i>American Journal of Obstetrics and Gynecology</i> , 2022 ,	6.4	1
260	On the hearing effects of a cholesteatoma growing: A biomechanical study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2022 , 236, 72-83	1.7	
259	Biomechanical characterization of the small intestine to simulate gastrointestinal tract chyme propulsion.. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022 , e3588	2.6	
258	Interaction of Abdominal and Pelvic Floor Muscles 2022 , 235-245		
257	Modeling Permanent Deformation during Low-Cycle Fatigue: Application to the Pelvic Floor Muscles during Labor. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 104908	5	
256	A finite element model to predict the consequences of endolymphatic hydrops in the basilar membrane. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021 , e3541	2.6	1
255	Finite element modelling of the surgical procedure for placement of a straight electrode array: Mechanical and clinical consequences. <i>Journal of Biomechanics</i> , 2021 , 129, 110812	2.9	0
254	Load adaptation through bone remodeling: a mechanobiological model coupled with the finite element method. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021 , 20, 1495-1507	3.8	1
253	Mechanical Effects of a Maylard Scar During a Vaginal Birth After a Previous Caesarean. <i>Annals of Biomedical Engineering</i> , 2021 , 1	4.7	1
252	Identification of ulcers and erosions by the novel Pillcam [®] Crohn [®] Capsule using a convolutional neural network: a multicentre pilot study. <i>Journal of Crohn's and Colitis</i> , 2021 ,	1.5	7
251	A numerical study on fetal head molding during labor. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021 , 37, e3411	2.6	3
250	Sprouting Angiogenesis: A Numerical Approach with Experimental Validation. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 871-884	4.7	4
249	A meshless study of antisymmetric angle-ply laminates using high-order shear deformation theories. <i>Composite Structures</i> , 2021 , 255, 112795	5.3	
248	A mathematical biomechanical model for bone remodeling integrated with a radial point interpolating meshless method. <i>Computers in Biology and Medicine</i> , 2021 , 129, 104170	7	2
247	Simulation of the viscoplastic extrusion process using the radial point interpolation meshless method. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021 , 235, 1203-1225	1.3	1
246	Modelling human liver microphysiology on a chip through a finite element based design approach. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021 , 37, e3445	2.6	1
245	Influence of the basilar membrane shape and mechanical properties in the cochlear response: A numerical study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021 , 235, 743-750	1.7	0

244	Numerical analysis of honeycomb-shaped polymeric foams using the FEM and the RPIM. <i>Engineering Analysis With Boundary Elements</i> , 2021 , 129, 27-38	2.6	3
243	The bending behaviour of antisymmetric cross-ply laminates using high-order shear deformation theories and a Radial Point Interpolation Method. <i>Structures</i> , 2021 , 32, 1589-1603	3.4	1
242	Artificial intelligence and colon capsule endoscopy: development of an automated diagnostic system of protruding lesions in colon capsule endoscopy. <i>Techniques in Coloproctology</i> , 2021 , 25, 1243-1248	2.8	4
241	Simulation of the process of angiogenesis: Quantification and assessment of vascular patterning in the chicken chorioallantoic membrane. <i>Computers in Biology and Medicine</i> , 2021 , 136, 104647	7	3
240	Effect of mesh anchoring technique in uterine prolapse repair surgery: A finite element analysis. <i>Journal of Biomechanics</i> , 2021 , 127, 110649	2.9	2
239	Optimizing a meshless method for the simulation of the extrusion of non-Newtonian materials. <i>International Journal of Mechanical Sciences</i> , 2021 , 208, 106688	5.5	0
238	Predicting bone remodeling using a mechano-biological mathematical model combined with a natural neighbor meshless method. <i>Engineering Analysis With Boundary Elements</i> , 2021 , 132, 437-445	2.6	2
237	A new non targeted bone remodeling model combined with an interpolation meshless method. <i>Mathematics and Computers in Simulation</i> , 2021 , 190, 23-37	3.3	1
236	Application of an enhanced homogenization technique to the structural multiscale analysis of a femur bone. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 868-878	2.1	1
235	Numerical simulation of lateral and transforaminal lumbar interbody fusion, two minimally invasive surgical approaches. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 408-421	2.1	5
234	Minimally invasive transforaminal and anterior lumbar interbody fusion surgery at level L5-S1. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 384-395	2.1	4
233	Characterization of hyperelastic and damage behavior of tendons. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 213-223	2.1	4
232	On the mechanical response of the actomyosin cortex during cell indentations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 2061-2079	3.8	1
231	Altered mechanics of vaginal smooth muscle cells due to the lysyl oxidase-like1 knockout. <i>Acta Biomaterialia</i> , 2020 , 110, 175-187	10.8	4
230	Biomechanical Simulation of Vaginal Childbirth: The Colors of the Pelvic Floor Muscles 2020 , 1-17		0
229	Development of a Constitutive Model to Predict the Elasto-Plastic Behaviour of 3D-Printed Thermoplastics: A Meshless Formulation. <i>Advanced Structured Materials</i> , 2020 , 311-329	0.6	
228	Bone remodeling: an improved spatiotemporal mathematical model. <i>Archive of Applied Mechanics</i> , 2020 , 90, 635-649	2.2	2
227	The numerical analysis of symmetric cross-ply laminates using the natural neighbour radial point interpolation method and high-order shear deformation theories. <i>Engineering Structures</i> , 2020 , 225, 111247	4.7	2

226	Investigating the birth-related caudal maternal pelvic floor muscle injury: The consequences of low cycle fatigue damage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 110, 103956	4.1	4
225	A preliminary study of endothelial cell migration during angiogenesis using a meshless method approach. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020 , 36, e3393	2.6	1
224	Analysis of antisymmetric cross-ply laminates using high-order shear deformation theories: a meshless approach. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2020 , 36, 1078-1098	2	2
223	Simulation of the uterine contractions and foetus expulsion using a chemo-mechanical constitutive model. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019 , 18, 829-843	3.8	6
222	Numerical Assessment of Bone Tissue Remodeling of a Proximal Femur After Insertion of a Femoral Implant Using an Interpolating Meshless Method 2019 , 405-412		
221	A new numerical approach to mechanically analyse biological structures. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019 , 22, 100-111	2.1	1
220	The Elasto-plastic Analysis of Polymers Subject to Traction and Compression Using Advanced Discretization Techniques. <i>Structural Integrity</i> , 2019 , 401-406	0.2	
219	A Stress Intensity Factor Study for a Pressure Vessel CT Specimen Using Finite Element Method. <i>Structural Integrity</i> , 2019 , 181-186	0.2	2
218	The Natural Neighbour Radial Point Interpolation Method to Predict the Compression and Traction Behavior of Thermoplastics. <i>Structural Integrity</i> , 2019 , 393-399	0.2	
217	USING MESHLESS METHODS TO SIMULATE BLOOD CLOTS 2019 ,		1
216	Biomechanical Simulation of a Dental Implant using Finite Element Method Analysis * 2019 ,		1
215	A new biological bone remodeling in silico model combined with advanced discretization methods. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019 , 35, e3196	2.6	4
214	A multiscale homogenization procedure combining the fabric tensor with a natural neighbour meshless method. <i>Engineering Analysis With Boundary Elements</i> , 2019 , 100, 211-224	2.6	4
213	Urinary incontinence and disordered eating in female elite athletes. <i>Journal of Science and Medicine in Sport</i> , 2019 , 22, 140-144	4.4	17
212	Biomechanical Analysis of Bone Tissue After Insertion of Dental Implants Using Meshless Methods: Stress Analysis and Osseointegration 2019 , 393-403		2
211	Determination of the Anisotropic Mechanical Properties of Bone Tissue Using a Homogenization Technique Combined With Meshless Methods 2019 , 201-213		2
210	Computational simulation of the vestibular system using a meshless particle method 2019 , 129-134		
209	Characterizing the Biomechanical Properties of the Pubovisceralis Muscle Using a Genetic Algorithm and the Finite Element Method. <i>Journal of Biomechanical Engineering</i> , 2019 , 141,	2.1	8

208	Mechanical bone remodelling: Comparative study of distinct numerical approaches. <i>Engineering Analysis With Boundary Elements</i> , 2019 , 100, 125-139	2.6	10
207	Characterization of the passive and active material parameters of the pubovisceralis muscle using an inverse numerical method. <i>Journal of Biomechanics</i> , 2018 , 71, 100-110	2.9	7
206	Biomechanical Analysis of the Damage in the Pelvic Floor Muscles During Childbirth. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018 , 133-142	0.3	
205	Designing the mechanical frame of an active exoskeleton for gait assistance. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401774366	1.2	3
204	A brain impact stress analysis using advanced discretization meshless techniques. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018 , 232, 257-270	1.7	5
203	Homogenization technique for heterogeneous composite materials using meshless methods. <i>Engineering Analysis With Boundary Elements</i> , 2018 , 92, 73-89	2.6	13
202	Searching for the Tissue Mechanical Properties in Pelvic Floor Dysfunction by Computational Modeling. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018 , 203-215	0.3	
201	The free vibrations analysis of the cupula in the inner ear using a natural neighbor meshless method. <i>Engineering Analysis With Boundary Elements</i> , 2018 , 92, 50-63	2.6	7
200	Performing high-level sport is strongly associated with urinary incontinence in elite athletes: a comparative study of 372 elite female athletes and 372 controls. <i>British Journal of Sports Medicine</i> , 2018 , 52, 1586-1590	10.3	23
199	Continuum mechanical model for cross-linked actin networks with contractile bundles. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 110, 100-117	5	8
198	The analysis of composite laminated beams using a 2D interpolating meshless technique. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2018 , 34, 99-116	2	4
197	Viscous effects in pelvic floor muscles during childbirth: A numerical study. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e2927	2.6	10
196	Material homogenization technique for composites: A meshless formulation. <i>Science and Technology of Materials</i> , 2018 , 30, 50-59		3
195	A computational framework to simulate the endolymph flow due to vestibular rehabilitation maneuvers assessed from accelerometer data. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018 , 21, 461-469	2.1	4
194	On the effect of labour durations using an anisotropic visco-hyperelastic-damage approach to simulate vaginal deliveries. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 88, 120-126 ^{4.1}		9
193	Simulating fracture propagation in brittle materials using a meshless approach. <i>Engineering With Computers</i> , 2018 , 34, 503-522	4.5	4
192	Numerical simulation of compression and tensile tests on thermoplastics: A meshless approach. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018 , 146442071881030	1.3	0
191	Association Between Physical Activity Level and Pelvic Floor Muscle Variables in Women. <i>International Journal of Sports Medicine</i> , 2018 , 39, 995-1000	3.6	10

190	Modelling skin wound healing angiogenesis: A review. <i>Journal of Theoretical Biology</i> , 2018 , 459, 1-17	2.3	31
189	Aluminum foam sandwich with adhesive bonding: Computational modeling 2017 , 93, 1025-1047		2
188	Estudo biomecânico da coluna cervical com patologia. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , 2017 , 33, 72-78	1.8	
187	Pubovisceralis Muscle Fiber Architecture Determination: Comparison Between Biomechanical Modeling and Diffusion Tensor Imaging. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 1255-1265	4.7	9
186	A general framework for the numerical implementation of anisotropic hyperelastic material models including non-local damage. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 1119-1140	3.8	11
185	A holistic view of the effects of episiotomy on pelvic floor. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017 , 33, e2892	2.6	2
184	The human otitis media with effusion: a numerical-based study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 958-966	2.1	7
183	A Numerical Study of Fenestral Otosclerosis. <i>Advanced Structured Materials</i> , 2017 , 147-155	0.6	
182	A numerical study of the human ear 2017 ,		1
181	Biomechanical properties of the pelvic floor muscles of continent and incontinent women using an inverse finite element analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 842-852	2.1	17
180	THE INFLUENCE OF PELVIC ORGAN PROLAPSE ON THE PASSIVE BIOMECHANICAL PROPERTIES OF PELVIC FLOOR MUSCLES. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1750090	0.7	5
179	Urinary Incontinence in Physically Active Young Women: Prevalence and Related Factors. <i>International Journal of Sports Medicine</i> , 2017 , 38, 937-941	3.6	27
178	THERMAL ANALYSIS IN DRILLING OF EX VIVO BOVINE BONES. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1750082	0.7	16
177	Application of virtual reality techniques to a birth simulation 2017 ,		1
176	Biomechanical Study of the Vestibular System of the Inner Ear Using a Numerical Method. <i>Procedia IUTAM</i> , 2017 , 24, 30-37		6
175	The management of episiotomy technique and its effect on pelvic floor muscles during a malposition childbirth. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 1249-1259	2.1	8
174	Variation of elasticity in the pelvic floor muscles for incontinent and prolapsed women. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2017 , 211, 203	2.4	
173	The Natural Neighbor Radial Point Interpolation Method in Computational Fracture Mechanics: A 2D Preliminary Study. <i>International Journal of Computational Methods</i> , 2017 , 14, 1750045	1.1	6

172	The anisotropic elasto-plastic analysis using a natural neighbour RPIM version. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 1773-1795	2	7
171	Meshless methods in oral biomechanics 2017 , 29-34		
170	Finite element analysis of the transfer of sound in the myringosclerotic ear. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016 , 19, 248-256	2.1	5
169	Cellular modelling in functional tissue engineering: review oriented for pelvic floor dysfunctions. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016 , 230, 5-17	1.3	
168	Numerical analysis of dental implants using a new advanced discretization technique. <i>Mechanics of Advanced Materials and Structures</i> , 2016 , 23, 467-479	1.8	9
167	Modeling the contraction of the pelvic floor muscles. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016 , 19, 347-56	2.1	8
166	Thermal analysis during bone drilling using rigid polyurethane foams: numerical and experimental methodologies. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016 , 38, 1855-1863	2.2	13
165	Effects of the fibers distribution in the human eardrum: A biomechanical study. <i>Journal of Biomechanics</i> , 2016 , 49, 1518-1523	2.9	8
164	Numerical simulation of the damage evolution in the pelvic floor muscles during childbirth. <i>Journal of Biomechanics</i> , 2016 , 49, 594-601	2.9	25
163	Establishing the biomechanical properties of the pelvic soft tissues through an inverse finite element analysis using magnetic resonance imaging. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016 , 230, 298-309	1.7	15
162	The Natural Neighbor Radial Point Interpolation Method Extended to the Crack Growth Simulation. <i>International Journal of Applied Mechanics</i> , 2016 , 08, 1650006	2.4	25
161	The analysis of the bone remodelling around femoral stems: A meshless approach. <i>Mathematics and Computers in Simulation</i> , 2016 , 121, 64-94	3.3	13
160	A study on the formability of aluminum tailor welded blanks produced by friction stir welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 83, 2129-2141	3.2	37
159	The analysis of laminated plates using distinct advanced discretization meshless techniques. <i>Composite Structures</i> , 2016 , 143, 165-179	5.3	44
158	Estudo do comportamento do ouvido médio considerando a presença de fluido. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , 2016 , 32, 188-191	1.8	
157	A biomechanical analysis on the impact of episiotomy during childbirth. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016 , 15, 1523-1534	3.8	19
156	Finite element modelling of sound transmission from outer to inner ear. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016 , 230, 999-1007	1.7	12
155	Study on the influence of the fetus head molding on the biomechanical behavior of the pelvic floor muscles, during vaginal delivery. <i>Journal of Biomechanics</i> , 2015 , 48, 1600-5	2.9	30

154	The Elasto-plastic Response of the Bone Tissue Due to the Insertion of Dental Implants. <i>Procedia Engineering</i> , 2015 , 110, 37-44		8
153	TOTAL OSSICULAR REPLACEMENT PROSTHESIS OF THE MIDDLE EAR: A BIOMECHANICAL ANALYSIS. <i>Journal of Mechanics in Medicine and Biology</i> , 2015 , 15, 1540006	0.7	4
152	Crack path prediction using the natural neighbour radial point interpolation method. <i>Engineering Analysis With Boundary Elements</i> , 2015 , 59, 144-158	2.6	27
151	Football practice and urinary incontinence: Relation between morphology, function and biomechanics. <i>Journal of Biomechanics</i> , 2015 , 48, 1587-92	2.9	22
150	A semi-implicit finite strain shell algorithm using in-plane strains based on least-squares. <i>Computational Mechanics</i> , 2015 , 55, 673-696	4	9
149	The numerical analysis of a restored tooth using meshless methods 2015 ,		1
148	The osteointegration numerical prediction of a femur stem using a meshless approach 2015 ,		1
147	THE MANDIBLE REMODELING INDUCED BY DENTAL IMPLANTS: A MESHLESS APPROACH. <i>Journal of Mechanics in Medicine and Biology</i> , 2015 , 15, 1550059	0.7	14
146	Using an inverse method for optimizing the material constants of the Mooney-Rivlin constitutive model 2015 ,		1
145	Urinary Incontinence and Levels of Regular Physical Exercise in Young Women. <i>International Journal of Sports Medicine</i> , 2015 , 36, 776-80	3.6	35
144	Study of Formability of Sandwich Shells with Metal Foam Cores Based on Punch Penetration Test. <i>Key Engineering Materials</i> , 2015 , 651-653, 1307-1311	0.4	
143	Biomechanical study on the bladder neck and urethral positions: simulation of impairment of the pelvic ligaments. <i>Journal of Biomechanics</i> , 2015 , 48, 217-23	2.9	39
142	A comparative study of forming limit diagram prediction of tailor welded blanks. <i>International Journal of Material Forming</i> , 2015 , 8, 293-304	2	18
141	The Meshless Methods in the Bone Tissue Remodelling Analysis. <i>Procedia Engineering</i> , 2015 , 110, 51-58		11
140	Effect of surgical mesh implant in the uterine prolapse correction 2015 ,		1
139	Fibre Reinforcement in Living Cells: A Preliminary Study of the F-actin Filaments. <i>Procedia Engineering</i> , 2015 , 110, 2-7		1
138	Volume of training and the ranking level are associated with the leakage of urine in young female trampolinists. <i>Clinical Journal of Sport Medicine</i> , 2015 , 25, 270-5	3.2	38
137	Effects of a Pelvic Floor Muscle Training in Nulliparous Athletes with Urinary Incontinence: Biomechanical Models Protocol. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2015 , 83-90	0.3	3

136	An elasto-plastic model to analyse the biomechanical behaviour of the atherosclerotic plaque tissue 2015 ,		1
135	Necromechanics: Death-induced changes in the mechanical properties of human tissues. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015 , 229, 343-9	1.7	6
134	Comparison of otoacoustic emissions in patients with tinnitus having normal hearing versus mild hearing loss. <i>International Tinnitus Journal</i> , 2015 , 19, 39-46	1.6	2
133	Pelvic Floor Muscles Behavior in Practitioners of High and Low Impact Sports. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2015 , 75-82	0.3	
132	The Impairment of Female Pelvic Ligaments and Its Relation With Pelvic Floor Dysfunction: Biomechanical Analysis. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2015 , 63-73	0.3	
131	What Exists in the Scientific Literature About Biomechanical Models in Pelvic Floor?â Systematic Review. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2015 , 49-62	0.3	
130	Biomechanical Study of the Cervical Spine. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2015 , 91-103	0.3	
129	Injury Simulation of Anterior Cruciate Ligament Using Isogeometric Analysis. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2015 , 105-121	0.3	
128	Understanding the travel experience and its impact on attitudes, emotions and loyalty towards the transportation providerâA quantitative study with mid-distance bus trips. <i>Transport Policy</i> , 2014 , 31, 35-46	5.7	67
127	An�lise de vigas laminadas utilizando o natural neighbour radial point interpolation method. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , 2014 , 30, 108-120	1.8	19
126	Facial pressure zones of an oronasal interface for noninvasive ventilation: a computer model analysis. <i>Jornal Brasileiro De Pneumologia</i> , 2014 , 40, 652-7	1.1	6
125	ANALYSIS OF EARDRUM PATHOLOGIES USING THE FINITE ELEMENT METHOD. <i>Journal of Mechanics in Medicine and Biology</i> , 2014 , 14, 1450034	0.7	9
124	The biomechanical effects of stapes replacement by prostheses on the tympano-ossicular chain. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014 , 30, 1409-20	2.6	7
123	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
122	Study on the forming of sandwich shells with closed-cell foam cores. <i>International Journal of Material Forming</i> , 2014 , 7, 413-424	2	7
121	A Global Numerical analysis of the "central incisor/local maxillary bone" system using a meshless method. <i>MCB Molecular and Cellular Biomechanics</i> , 2014 , 11, 151-84	1.2	6
120	The natural radial element method. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 93, 1286-1313	2.4	49
119	Oxford Grading Scale vs manometer for assessment of pelvic floor strength in nulliparous sports students. <i>Physiotherapy</i> , 2013 , 99, 207-11	3	34

118	Strength of round and uterosacral ligaments: a biomechanical study. <i>Archives of Gynecology and Obstetrics</i> , 2013 , 287, 313-8	2.5	25
117	Towards a holistic approach to the travel experience: A qualitative study of bus transportation. <i>Transport Policy</i> , 2013 , 25, 233-243	5.7	49
116	Analysis of thick plates by the natural radial element method. <i>International Journal of Mechanical Sciences</i> , 2013 , 76, 33-48	5.5	47
115	Implant shape influence on the mechanical behavior of breast implants 2013 ,		3
114	Nitinol artificial anterior cruciate ligament: A finite element study 2013 ,		1
113	Free vibration analysis of functionally graded shells by a higher-order shear deformation theory and radial basis functions collocation, accounting for through-the-thickness deformations. <i>European Journal of Mechanics, A/Solids</i> , 2013 , 37, 24-34	3.7	127
112	Segmentation of female pelvic organs in axial magnetic resonance images using coupled geometric deformable models. <i>Computers in Biology and Medicine</i> , 2013 , 43, 248-58	7	20
111	A level set based algorithm to reconstruct the urinary bladder from multiple views. <i>Medical Engineering and Physics</i> , 2013 , 35, 1819-24	2.4	7
110	Moment of inertia as a means to evaluate the biomechanical impact of pelvic organ prolapse. <i>International Journal of Urology</i> , 2013 , 20, 86-92	2.3	6
109	The influence of muscles activation on the dynamical behaviour of the tympano-ossicular system of the middle ear. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16, 392-402	2.1	17
108	The influence of regional profiles and senescence on the biomechanical properties of the temporalis muscle. <i>Journal of Biomechanics</i> , 2013 , 46, 1592-5	2.9	1
107	Composite laminated plate analysis using the natural radial element method. <i>Composite Structures</i> , 2013 , 103, 50-67	5.3	47
106	A meshless microscale bone tissue trabecular remodelling analysis considering a new anisotropic bone tissue material law. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16, 1170-84	2.1	33
105	Experimental and Numerical Study on the Temperature Field during Surface Grinding of a Ti-6Al-4V Titanium Alloy. <i>Mechanics of Advanced Materials and Structures</i> , 2013 , 20, 397-404	1.8	3
104	Static, free vibration and buckling analysis of isotropic and sandwich functionally graded plates using a quasi-3D higher-order shear deformation theory and a meshless technique. <i>Composites Part B: Engineering</i> , 2013 , 44, 657-674	10	352
103	Magnetic resonance imaging of the pelvic floor: from clinical to biomechanical imaging. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013 , 227, 1324-32	1.7	12
102	Determination of expander apparatus displacements and contact pressures on the mucosa using FEM modelling considering mandibular asymmetries. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16, 954-62	2.1	3
101	Study of Formability of Sandwich Shells with Metal Foam Cores. <i>Key Engineering Materials</i> , 2013 , 554-557, 2252-2255	0.4	2

100	Development of an extended Kansei engineering method to incorporate experience requirements in product-service system design. <i>Journal of Engineering Design</i> , 2013 , 24, 738-764	1.8	46
99	Biomechanical study of a fetus during a vaginal delivery 2013 ,		1
98	Biomechanical properties of vaginal tissue in women with pelvic organ prolapse. <i>Gynecologic and Obstetric Investigation</i> , 2013 , 75, 85-92	2.5	33
97	Mechanical characterization and constitutive modelling of the damage process in rectus sheath. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 8, 111-22	4.1	50
96	Static analysis of functionally graded sandwich plates according to a hyperbolic theory considering Zig-Zag and warping effects. <i>Advances in Engineering Software</i> , 2012 , 52, 30-43	3.6	79
95	Experimental study of the influence of senescence in the biomechanical properties of the temporal tendon and deep temporal fascia based on uniaxial tension tests. <i>Journal of Biomechanics</i> , 2012 , 45, 199-201	2.0	20
94	Estimation of the forces generated by the thigh muscles for transtibial amputee gait. <i>Journal of Biomechanics</i> , 2012 , 45, 972-7	2.9	6
93	Bone tissue remodelling analysis considering a radial point interpolator meshless method. <i>Engineering Analysis With Boundary Elements</i> , 2012 , 36, 1660-1670	2.6	44
92	Buckling analysis of sandwich plates with functionally graded skins using a new quasi-3D hyperbolic sine shear deformation theory and collocation with radial basis functions. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2012 , 92, 749-766	1	41
91	Segmentation of female pelvic cavity in axial T2-weighted MR images towards the 3D reconstruction. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2012 , 28, 714-26	2.6	15
90	Experimental and numerical study of the temperature field during creep feed grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 61, 127-134	3.2	15
89	Pelvic floor muscle training to improve urinary incontinence in young, nulliparous sport students: a pilot study. <i>International Urogynecology Journal</i> , 2012 , 23, 1069-73	2	48
88	A quasi-3D sinusoidal shear deformation theory for the static and free vibration analysis of functionally graded plates. <i>Composites Part B: Engineering</i> , 2012 , 43, 711-725	10	254
87	A quasi-3D hyperbolic shear deformation theory for the static and free vibration analysis of functionally graded plates. <i>Composite Structures</i> , 2012 , 94, 1814-1825	5.3	205
86	Buckling behaviour of cross-ply laminated plates by a higher-order shear deformation theory. <i>Science and Engineering of Composite Materials</i> , 2012 , 19, 119-125	1.5	6
85	Numerical Modelling and Experimental Study of Sandwich Shells with Metal Foam Cores. <i>Key Engineering Materials</i> , 2012 , 504-506, 449-454	0.4	3
84	Modeling of Sandwich Sheets with Metallic Foam 2011 ,		1
83	Static and dynamic analysis of laminated plates based on an unconstrained third order theory and using a radial point interpolator meshless method. <i>Computers and Structures</i> , 2011 , 89, 1771-1784	4.5	30

82	Novel approach to segment the inner and outer boundaries of the bladder wall in T2-weighted magnetic resonance images. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 2287-97	4.7	38
81	Uniaxial mechanical behavior of the human female bladder. <i>International Urogynecology Journal</i> , 2011 , 22, 991-5	2	39
80	Bending of FGM plates by a sinusoidal plate formulation and collocation with radial basis functions. <i>Mechanics Research Communications</i> , 2011 , 38, 368-371	2.2	79
79	A natural neighbour meshless method with a 3D shell-like approach in the dynamic analysis of thin 3D structures. <i>Thin-Walled Structures</i> , 2011 , 49, 185-196	4.7	36
78	Buckling and vibration analysis of isotropic and laminated plates by radial basis functions. <i>Composites Part B: Engineering</i> , 2011 , 42, 592-606	10	59
77	Transient analysis of composite plates by radial basis functions in a pseudospectral framework. <i>Computers and Structures</i> , 2011 , 89, 161-169	4.5	2
76	Mechanical characterization of the softening behavior of human vaginal tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 275-83	4.1	51
75	Buckling analysis of isotropic and laminated plates by radial basis functions according to a higher-order shear deformation theory. <i>Thin-Walled Structures</i> , 2011 , 49, 804-811	4.7	62
74	Optimisation of Tubular Hydroforming Processes for Wrinkling and Thinning Control. <i>Key Engineering Materials</i> , 2011 , 473, 159-167	0.4	
73	Transient analysis of composite and sandwich plates by radial basis functions. <i>Journal of Sandwich Structures and Materials</i> , 2011 , 13, 681-704	2.1	11
72	FEM Analysis of Sandwich Shells with Metallic Foam Cores. <i>Key Engineering Materials</i> , 2011 , 473, 659-666	0.4	3
71	The influence of the mechanical behaviour of the middle ear ligaments: a finite element analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2011 , 225, 68-76	1.7	35
70	Vaginal tissue properties versus increased intra-abdominal pressure: a preliminary biomechanical study. <i>Gynecologic and Obstetric Investigation</i> , 2011 , 71, 145-50	2.5	9
69	Adaptive Methods for Analysis of Composite Plates with Radial Basis Functions. <i>Mechanics of Advanced Materials and Structures</i> , 2011 , 18, 420-430	1.8	1
68	An approach on determining the displacements of the pelvic floor during voluntary contraction using numerical simulation and MRI. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011 , 14, 365-70	2.1	17
67	The Natural Neighbour Radial Point Interpolation Meshless Method Applied to the Non-Linear Analysis 2011 ,		1
66	Composite Laminated Plates: A 3D Natural Neighbor Radial Point Interpolation Method Approach. <i>Journal of Sandwich Structures and Materials</i> , 2010 , 12, 119-138	2.1	25
65	An Optimized Shape Parameter Radial Basis Function Formulation for Composite and Sandwich Plates using Higher Order Formulations. <i>Journal of Sandwich Structures and Materials</i> , 2010 , 12, 279-306	2.1	4

64	Dynamic Analysis of Functionally Graded Plates and Shells by Radial Basis Functions. <i>Mechanics of Advanced Materials and Structures</i> , 2010 , 17, 636-652	1.8	27
63	A review of algorithms for medical image segmentation and their applications to the female pelvic cavity. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010 , 13, 235-46	2.1	209
62	Prediction of nonlinear elastic behaviour of vaginal tissue: experimental results and model formulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010 , 13, 327-37	2.1	29
61	An Unconstrained Third-Order Plate Theory Applied to Functionally Graded Plates Using a Meshless Method. <i>Mechanics of Advanced Materials and Structures</i> , 2010 , 17, 108-133	1.8	27
60	Evaluation of pelvic floor muscle cross-sectional area using a 3D computer model based on MRI in women with and without prolapse. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2010 , 153, 110-1	2.4	5
59	The influence of pelvic muscle activation during vaginal delivery. <i>Obstetrics and Gynecology</i> , 2010 , 115, 804-808	4.9	34
58	Translation of biomechanics research to urogynecology. <i>Archives of Gynecology and Obstetrics</i> , 2010 , 282, 149-55	2.5	9
57	Experimental study and constitutive modeling of the viscoelastic mechanical properties of the human prolapsed vaginal tissue. <i>Biomechanics and Modeling in Mechanobiology</i> , 2010 , 9, 35-44	3.8	47
56	Analysis of plates on Pasternak foundations by radial basis functions. <i>Computational Mechanics</i> , 2010 , 46, 791-803	4	33
55	Study of sandwich shells with metallic foam cores. <i>International Journal of Material Forming</i> , 2010 , 3, 903-906	2	5
54	A simulation study of the effect of some parameters in thermal analysis of creep feed grinding. <i>International Journal of Material Forming</i> , 2010 , 3, 911-914	2	4
53	Computational modeling approach to study the effects of fetal head flexion during vaginal delivery. <i>American Journal of Obstetrics and Gynecology</i> , 2010 , 203, 217.e1-6	6.4	37
52	A shape guided C-V model to segment the levator ani muscle in axial magnetic resonance images. <i>Medical Engineering and Physics</i> , 2010 , 32, 766-74	2.4	35
51	A 3D shell-like approach using a natural neighbour meshless method: Isotropic and orthotropic thin structures. <i>Composite Structures</i> , 2010 , 92, 1132-1142	5.3	37
50	Solving time-dependent problems by an RBF-PS method with an optimal shape parameter. <i>Journal of Physics: Conference Series</i> , 2009 , 181, 012053	0.3	1
49	On modelling damage process in vaginal tissue. <i>Journal of Biomechanics</i> , 2009 , 42, 642-51	2.9	64
48	The influence of the material properties on the biomechanical behavior of the pelvic floor muscles during vaginal delivery. <i>Journal of Biomechanics</i> , 2009 , 42, 1301-6	2.9	61
47	Enhanced finite element formulations on the numerical simulation of tailor-welded hydroformed products. <i>International Journal of Material Forming</i> , 2009 , 2, 927-929	2	1

46	On the temperature field during superficial grinding: an experimental study. <i>International Journal of Advanced Manufacturing Technology</i> , 2009 , 40, 1084-1092	3.2	4
45	The influence of an occipito-posterior malposition on the biomechanical behavior of the pelvic floor. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2009 , 144 Suppl 1, S166-9	2.4	41
44	The natural neighbour radial point interpolation method: dynamic applications. <i>Engineering Computations</i> , 2009 , 26, 911-949	1.4	35
43	Deformation of the pelvic floor muscles during a vaginal delivery. <i>International Urogynecology Journal</i> , 2008 , 19, 65-71	2	92
42	Analysis of plates and laminates using the natural neighbour radial point interpolation method. <i>Engineering Analysis With Boundary Elements</i> , 2008 , 32, 267-279	2.6	86
41	Simulation of dissimilar tailor-welded tubular hydroforming processes using EAS-based solid finite elements. <i>International Journal of Advanced Manufacturing Technology</i> , 2008 , 37, 670-689	3.2	17
40	Mechanical properties of polypropylene mesh used in pelvic floor repair. <i>International Urogynecology Journal</i> , 2008 , 19, 375-80	2	50
39	Analysis of 3D solids using the natural neighbour radial point interpolation method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 196, 2009-2028	5.7	106
38	Natural frequencies of FSDT cross-ply composite shells by multiquadrics. <i>Composite Structures</i> , 2007 , 77, 296-305	5.3	53
37	On the use of element-free Galerkin Method for problems involving incompressibility. <i>Engineering Analysis With Boundary Elements</i> , 2007 , 31, 103-115	2.6	6
36	A radial basis function approach for the free vibration analysis of functionally graded plates using a refined theory. <i>Journal of Sound and Vibration</i> , 2007 , 300, 1048-1070	3.9	94
35	Study of hydroformed tailor-welded tubular parts with dissimilar thickness. <i>Journal of Materials Processing Technology</i> , 2007 , 184, 363-371	5.3	16
34	Finite element studies of the deformation of the pelvic floor. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1101, 316-34	6.5	53
33	Numerical Simulation of Hydroforming Process Involving a Tubular Blank with Dissimilar Thickness. <i>Materials and Manufacturing Processes</i> , 2007 , 22, 286-291	4.1	8
32	Analysis of Functionally Graded Plates by a Robust Meshless Method. <i>Mechanics of Advanced Materials and Structures</i> , 2007 , 14, 577-587	1.8	75
31	Compressibility and shell failure in the European Atlantic Patella limpets. <i>Marine Biology</i> , 2006 , 150, 585-597	5.9	13
30	A new one-point quadrature enhanced assumed strain (EAS) solid-shell element with multiple integration points along thicknessâPart II: nonlinear applications. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 67, 160-188	2.4	80
29	Locking and hourglass phenomena in an element-free Galerkin context: the B-bar method with stabilization and an enhanced strain method. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 68, 1329-1357	2.4	9

28	Free Vibration Analysis of Composite and Sandwich Plates by a Trigonometric Layerwise Deformation Theory and Radial Basis Functions. <i>Journal of Sandwich Structures and Materials</i> , 2006 , 8, 497-515	2.1	36
27	Dynamic assessment of women pelvic floor function by using a fiber Bragg grating sensor system 2006 ,		2
26	A Comparative Study of Several Material Models for Prediction of Hyperelastic Properties: Application to Silicone-Rubber and Soft Tissues. <i>Strain</i> , 2006 , 42, 135-147	1.7	290
25	Sheet metal forming simulation using EAS solid-shell finite elements. <i>Finite Elements in Analysis and Design</i> , 2006 , 42, 1137-1149	2.2	27
24	Modelling cross-ply laminated elastic shells by a higher-order theory and multiquadrics. <i>Computers and Structures</i> , 2006 , 84, 1288-1299	4.5	38
23	Natural frequencies of functionally graded plates by a meshless method. <i>Composite Structures</i> , 2006 , 75, 593-600	5.3	272
22	Static and free vibration analysis of composite shells by radial basis functions. <i>Engineering Analysis With Boundary Elements</i> , 2006 , 30, 719-733	2.6	60
21	Biomechanical simulation of middle ear using hyperelastic models. <i>Journal of Biomechanics</i> , 2006 , 39, S388-S389	2.9	5
20	Free vibration analysis of symmetric laminated composite plates by FSDT and radial basis functions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005 , 194, 4265-4278	5.7	117
19	Modelling of composite and sandwich plates by a trigonometric layerwise deformation theory and radial basis functions. <i>Composites Part B: Engineering</i> , 2005 , 36, 559-572	10	73
18	Analysis of composite plates by trigonometric shear deformation theory and multiquadrics. <i>Computers and Structures</i> , 2005 , 83, 2225-2237	4.5	136
17	Static deformations and vibration analysis of composite and sandwich plates using a layerwise theory and multiquadrics discretizations. <i>Engineering Analysis With Boundary Elements</i> , 2005 , 29, 1104-1114	2.6	84
16	A new one-point quadrature enhanced assumed strain (EAS) solid-shell element with multiple integration points along thickness: Part I—geometrically linear applications. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 62, 952-977	2.4	76
15	Enhanced transverse shear strain shell formulation applied to large elasto-plastic deformation problems. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 62, 1360-1398	2.4	21
14	Numerical Study of Hydroforming with Tailor-Welded Tubular Blanks. <i>AIP Conference Proceedings</i> , 2005 ,	0	2
13	A shell finite element model of the pelvic floor muscles. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2005 , 8, 339-47	2.1	60
12	Enhanced Assumed Strain Shell and Solid-Shell Elements: Application in Sheet Metal Forming Processes. <i>AIP Conference Proceedings</i> , 2004 ,	0	2
11	An enhanced strain 3D element for large deformation elastoplastic thin-shell applications. <i>Computational Mechanics</i> , 2004 , 34, 38	4	51

10	Experimental and Finite Element Analysis of Human Skin Elasticity 2003 , 303		2
9	A new volumetric and shear locking-free 3D enhanced strain element. <i>Engineering Computations</i> , 2003 , 20, 896-925	1.4	65
8	On the use of an enhanced transverse shear strain shell element for problems involving large rotations. <i>Computational Mechanics</i> , 2003 , 30, 286-296	4	43
7	Numerical modelling of ductile plastic damage in bulk metal forming. <i>International Journal of Mechanical Sciences</i> , 2003 , 45, 273-294	5.5	63
6	Development of shear locking-free shell elements using an enhanced assumed strain formulation. <i>International Journal for Numerical Methods in Engineering</i> , 2002 , 53, 1721-1750	2.4	65
5	Design of a steam-heated sterilizer based on finite element method stress analysis. <i>International Journal of Pressure Vessels and Piping</i> , 2001 , 78, 627-635	2.4	1
4	Quadrilateral elements for the solution of elasto-plastic finite strain problems. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 51, 883-917	2.4	20
3	A quadrilateral mesh generator for adaptive procedures in bulk forming processes. <i>Engineering Computations</i> , 2000 , 17, 950-969	1.4	2
2	New enhanced strain elements for incompressible problems. <i>International Journal for Numerical Methods in Engineering</i> , 1999 , 44, 229-248	2.4	50
1	The natural neighbor radial point interpolation method in the Elasto-Static analysis of Honeycomb-Shaped foams. <i>International Journal of Computational Materials Science and Engineering</i> , 2150014	0.3	