

# Renato Natal Jorge

## List of Publications by Citations

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261  
papers

6,396  
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44  
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73  
g-index

302  
ext. papers

7,067  
ext. citations

2.7  
avg, IF

5.93  
L-index

#	Paper	IF	Citations
261	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> , <b>2013</b> , 44, 657-674	10	352
260	A Comparative Study of Several Material Models for Prediction of Hyperelastic Properties: Application to Silicone-Rubber and Soft Tissues. <i>Strain</i> , <b>2006</b> , 42, 135-147	1.7	290
259	Natural frequencies of functionally graded plates by a meshless method. <i>Composite Structures</i> , <b>2006</b> , 75, 593-600	5.3	272
258	A quasi-3D sinusoidal shear deformation theory for the static and free vibration analysis of functionally graded plates. <i>Composites Part B: Engineering</i> , <b>2012</b> , 43, 711-725	10	254
257	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> , <b>2010</b> , 13, 235-46	2.1	209
256	A quasi-3D hyperbolic shear deformation theory for the static and free vibration analysis of functionally graded plates. <i>Composite Structures</i> , <b>2012</b> , 94, 1814-1825	5.3	205
255	Analysis of composite plates by trigonometric shear deformation theory and multiquadrics. <i>Computers and Structures</i> , <b>2005</b> , 83, 2225-2237	4.5	136
254	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> , <b>2013</b> , 37, 24-34	3.7	127
253	Free vibration analysis of symmetric laminated composite plates by FSDT and radial basis functions. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2005</b> , 194, 4265-4278	5.7	117
252	Analysis of 3D solids using the natural neighbour radial point interpolation method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2007</b> , 196, 2009-2028	5.7	106
251	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> , <b>2007</b> , 300, 1048-1070	3.9	94
250	Deformation of the pelvic floor muscles during a vaginal delivery. <i>International Urogynecology Journal</i> , <b>2008</b> , 19, 65-71	2	92
249	Analysis of plates and laminates using the natural neighbour radial point interpolation method. <i>Engineering Analysis With Boundary Elements</i> , <b>2008</b> , 32, 267-279	2.6	86
248	Static deformations and vibration analysis of composite and sandwich plates using a layerwise theory and multiquadrics discretizations. <i>Engineering Analysis With Boundary Elements</i> , <b>2005</b> , 29, 1104-1114	2.6	84
247	A new one-point quadrature enhanced assumed strain (EAS) solid-shell element with multiple integration points along thickness—Part II: nonlinear applications. <i>International Journal for Numerical Methods in Engineering</i> , <b>2006</b> , 67, 160-188	2.4	80
246	Static analysis of functionally graded sandwich plates according to a hyperbolic theory considering Zig-Zag and warping effects. <i>Advances in Engineering Software</i> , <b>2012</b> , 52, 30-43	3.6	79
245	Bending of FGM plates by a sinusoidal plate formulation and collocation with radial basis functions. <i>Mechanics Research Communications</i> , <b>2011</b> , 38, 368-371	2.2	79

244	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> , <b>2005</b> , 62, 952-977	2.4	76
243	Analysis of Functionally Graded Plates by a Robust Meshless Method. <i>Mechanics of Advanced Materials and Structures</i> , <b>2007</b> , 14, 577-587	1.8	75
242	Modelling of composite and sandwich plates by a trigonometric layerwise deformation theory and radial basis functions. <i>Composites Part B: Engineering</i> , <b>2005</b> , 36, 559-572	10	73
241	Understanding the travel experience and its impact on attitudes, emotions and loyalty towards the transportation provider—a quantitative study with mid-distance bus trips. <i>Transport Policy</i> , <b>2014</b> , 31, 35-46	5.7	67
240	A new volumetric and shear locking-free 3D enhanced strain element. <i>Engineering Computations</i> , <b>2003</b> , 20, 896-925	1.4	65
239	Development of shear locking-free shell elements using an enhanced assumed strain formulation. <i>International Journal for Numerical Methods in Engineering</i> , <b>2002</b> , 53, 1721-1750	2.4	65
238	On modelling damage process in vaginal tissue. <i>Journal of Biomechanics</i> , <b>2009</b> , 42, 642-51	2.9	64
237	Numerical modelling of ductile plastic damage in bulk metal forming. <i>International Journal of Mechanical Sciences</i> , <b>2003</b> , 45, 273-294	5.5	63
236	Buckling analysis of isotropic and laminated plates by radial basis functions according to a higher-order shear deformation theory. <i>Thin-Walled Structures</i> , <b>2011</b> , 49, 804-811	4.7	62
235	The influence of the material properties on the biomechanical behavior of the pelvic floor muscles during vaginal delivery. <i>Journal of Biomechanics</i> , <b>2009</b> , 42, 1301-6	2.9	61
234	Static and free vibration analysis of composite shells by radial basis functions. <i>Engineering Analysis With Boundary Elements</i> , <b>2006</b> , 30, 719-733	2.6	60
233	A shell finite element model of the pelvic floor muscles. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2005</b> , 8, 339-47	2.1	60
232	Buckling and vibration analysis of isotropic and laminated plates by radial basis functions. <i>Composites Part B: Engineering</i> , <b>2011</b> , 42, 592-606	10	59
231	Natural frequencies of FSDT cross-ply composite shells by multiquadrics. <i>Composite Structures</i> , <b>2007</b> , 77, 296-305	5.3	53
230	Finite element studies of the deformation of the pelvic floor. <i>Annals of the New York Academy of Sciences</i> , <b>2007</b> , 1101, 316-34	6.5	53
229	Mechanical characterization of the softening behavior of human vaginal tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2011</b> , 4, 275-83	4.1	51
228	An enhanced strain 3D element for large deformation elastoplastic thin-shell applications. <i>Computational Mechanics</i> , <b>2004</b> , 34, 38	4	51
227	Mechanical characterization and constitutive modelling of the damage process in rectus sheath. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 8, 111-22	4.1	50

226	Mechanical properties of polypropylene mesh used in pelvic floor repair. <i>International Urogynecology Journal</i> , <b>2008</b> , 19, 375-80	2	50
225	New enhanced strain elements for incompressible problems. <i>International Journal for Numerical Methods in Engineering</i> , <b>1999</b> , 44, 229-248	2.4	50
224	The natural radial element method. <i>International Journal for Numerical Methods in Engineering</i> , <b>2013</b> , 93, 1286-1313	2.4	49
223	Towards a holistic approach to the travel experience: A qualitative study of bus transportation. <i>Transport Policy</i> , <b>2013</b> , 25, 233-243	5.7	49
222	Pelvic floor muscle training to improve urinary incontinence in young, nulliparous sport students: a pilot study. <i>International Urogynecology Journal</i> , <b>2012</b> , 23, 1069-73	2	48
221	Analysis of thick plates by the natural radial element method. <i>International Journal of Mechanical Sciences</i> , <b>2013</b> , 76, 33-48	5.5	47
220	Composite laminated plate analysis using the natural radial element method. <i>Composite Structures</i> , <b>2013</b> , 103, 50-67	5.3	47
219	Experimental study and constitutive modeling of the viscoelastic mechanical properties of the human prolapsed vaginal tissue. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2010</b> , 9, 35-44	3.8	47
218	Development of an extended Kansei engineering method to incorporate experience requirements in product-service system design. <i>Journal of Engineering Design</i> , <b>2013</b> , 24, 738-764	1.8	46
217	Bone tissue remodelling analysis considering a radial point interpolator meshless method. <i>Engineering Analysis With Boundary Elements</i> , <b>2012</b> , 36, 1660-1670	2.6	44
216	The analysis of laminated plates using distinct advanced discretization meshless techniques. <i>Composite Structures</i> , <b>2016</b> , 143, 165-179	5.3	44
215	On the use of an enhanced transverse shear strain shell element for problems involving large rotations. <i>Computational Mechanics</i> , <b>2003</b> , 30, 286-296	4	43
214	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> , <b>2012</b> , 92, 749-766	1	41
213	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> , <b>2009</b> , 144 Suppl 1, S166-9	2.4	41
212	Biomechanical study on the bladder neck and urethral positions: simulation of impairment of the pelvic ligaments. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 217-23	2.9	39
211	Uniaxial mechanical behavior of the human female bladder. <i>International Urogynecology Journal</i> , <b>2011</b> , 22, 991-5	2	39
210	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> , <b>2015</b> , 25, 270-5	3.2	38
209	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> , <b>2011</b> , 39, 2287-97	4.7	38

208	Modelling cross-ply laminated elastic shells by a higher-order theory and multiquadrics. <i>Computers and Structures</i> , <b>2006</b> , 84, 1288-1299	4.5	38
207	A study on the formability of aluminum tailor welded blanks produced by friction stir welding. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 83, 2129-2141	3.2	37
206	Computational modeling approach to study the effects of fetal head flexion during vaginal delivery. <i>American Journal of Obstetrics and Gynecology</i> , <b>2010</b> , 203, 217.e1-6	6.4	37
205	A 3D shell-like approach using a natural neighbour meshless method: Isotropic and orthotropic thin structures. <i>Composite Structures</i> , <b>2010</b> , 92, 1132-1142	5.3	37
204	A natural neighbour meshless method with a 3D shell-like approach in the dynamic analysis of thin 3D structures. <i>Thin-Walled Structures</i> , <b>2011</b> , 49, 185-196	4.7	36
203	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> , <b>2006</b> , 8, 497-515	2.1	36
202	Urinary Incontinence and Levels of Regular Physical Exercise in Young Women. <i>International Journal of Sports Medicine</i> , <b>2015</b> , 36, 776-80	3.6	35
201	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> , <b>2011</b> , 225, 68-76	1.7	35
200	The natural neighbour radial point interpolation method: dynamic applications. <i>Engineering Computations</i> , <b>2009</b> , 26, 911-949	1.4	35
199	A shape guided C-V model to segment the levator ani muscle in axial magnetic resonance images. <i>Medical Engineering and Physics</i> , <b>2010</b> , 32, 766-74	2.4	35
198	Oxford Grading Scale vs manometer for assessment of pelvic floor strength in nulliparous sports students. <i>Physiotherapy</i> , <b>2013</b> , 99, 207-11	3	34
197	The influence of pelvic muscle activation during vaginal delivery. <i>Obstetrics and Gynecology</i> , <b>2010</b> , 115, 804-808	4.9	34
196	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> , <b>2013</b> , 16, 1170-84	2.1	33
195	Biomechanical properties of vaginal tissue in women with pelvic organ prolapse. <i>Gynecologic and Obstetric Investigation</i> , <b>2013</b> , 75, 85-92	2.5	33
194	Analysis of plates on Pasternak foundations by radial basis functions. <i>Computational Mechanics</i> , <b>2010</b> , 46, 791-803	4	33
193	Modelling skin wound healing angiogenesis: A review. <i>Journal of Theoretical Biology</i> , <b>2018</b> , 459, 1-17	2.3	31
192	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> , <b>2015</b> , 48, 1600-5	2.9	30
191	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> , <b>2011</b> , 89, 1771-1784	4.5	30

190	Prediction of nonlinear elastic behaviour of vaginal tissue: experimental results and model formulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2010</b> , 13, 327-37	2.1	29
189	Urinary Incontinence in Physically Active Young Women: Prevalence and Related Factors. <i>International Journal of Sports Medicine</i> , <b>2017</b> , 38, 937-941	3.6	27
188	Crack path prediction using the natural neighbour radial point interpolation method. <i>Engineering Analysis With Boundary Elements</i> , <b>2015</b> , 59, 144-158	2.6	27
187	Dynamic Analysis of Functionally Graded Plates and Shells by Radial Basis Functions. <i>Mechanics of Advanced Materials and Structures</i> , <b>2010</b> , 17, 636-652	1.8	27
186	An Unconstrained Third-Order Plate Theory Applied to Functionally Graded Plates Using a Meshless Method. <i>Mechanics of Advanced Materials and Structures</i> , <b>2010</b> , 17, 108-133	1.8	27
185	Sheet metal forming simulation using EAS solid-shell finite elements. <i>Finite Elements in Analysis and Design</i> , <b>2006</b> , 42, 1137-1149	2.2	27
184	Numerical simulation of the damage evolution in the pelvic floor muscles during childbirth. <i>Journal of Biomechanics</i> , <b>2016</b> , 49, 594-601	2.9	25
183	The Natural Neighbor Radial Point Interpolation Method Extended to the Crack Growth Simulation. <i>International Journal of Applied Mechanics</i> , <b>2016</b> , 08, 1650006	2.4	25
182	Strength of round and uterosacral ligaments: a biomechanical study. <i>Archives of Gynecology and Obstetrics</i> , <b>2013</b> , 287, 313-8	2.5	25
181	Composite Laminated Plates: A 3D Natural Neighbor Radial Point Interpolation Method Approach. <i>Journal of Sandwich Structures and Materials</i> , <b>2010</b> , 12, 119-138	2.1	25
180	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> , <b>2018</b> , 52, 1586-1590	10.3	23
179	Football practice and urinary incontinence: Relation between morphology, function and biomechanics. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 1587-92	2.9	22
178	Enhanced transverse shear strain shell formulation applied to large elasto-plastic deformation problems. <i>International Journal for Numerical Methods in Engineering</i> , <b>2005</b> , 62, 1360-1398	2.4	21
177	Segmentation of female pelvic organs in axial magnetic resonance images using coupled geometric deformable models. <i>Computers in Biology and Medicine</i> , <b>2013</b> , 43, 248-58	7	20
176	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> , <b>2012</b> , 45, 199-201	2.9	20
175	Quadrilateral elements for the solution of elasto-plastic finite strain problems. <i>International Journal for Numerical Methods in Engineering</i> , <b>2001</b> , 51, 883-917	2.4	20
174	Análise de vigas laminadas utilizando o natural neighbour radial point interpolation method. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , <b>2014</b> , 30, 108-120	1.8	19
173	A biomechanical analysis on the impact of episiotomy during childbirth. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2016</b> , 15, 1523-1534	3.8	19



172	A comparative study of forming limit diagram prediction of tailor welded blanks. <i>International Journal of Material Forming</i> , <b>2015</b> , 8, 293-304	2	18
171	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> , <b>2017</b> , 20, 842-852	2.1	17
170	Urinary incontinence and disordered eating in female elite athletes. <i>Journal of Science and Medicine in Sport</i> , <b>2019</b> , 22, 140-144	4.4	17
169	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> , <b>2013</b> , 16, 392-402	2.1	17
168	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> , <b>2011</b> , 14, 365-70	2.1	17
167	Simulation of dissimilar tailor-welded tubular hydroforming processes using EAS-based solid finite elements. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2008</b> , 37, 670-689	3.2	17
166	THERMAL ANALYSIS IN DRILLING OF EX VIVO BOVINE BONES. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2017</b> , 17, 1750082	0.7	16
165	Study of hydroformed tailor-welded tubular parts with dissimilar thickness. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 184, 363-371	5.3	16
164	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> , <b>2016</b> , 230, 298-309	1.7	15
163	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> , <b>2012</b> , 28, 714-26	2.6	15
162	Experimental and numerical study of the temperature field during creep feed grinding. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2012</b> , 61, 127-134	3.2	15
161	THE MANDIBLE REMODELING INDUCED BY DENTAL IMPLANTS: A MESHLESS APPROACH. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2015</b> , 15, 1550059	0.7	14
160	Homogenization technique for heterogeneous composite materials using meshless methods. <i>Engineering Analysis With Boundary Elements</i> , <b>2018</b> , 92, 73-89	2.6	13
159	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> , <b>2016</b> , 38, 1855-1863	2.6	13
158	The analysis of the bone remodelling around femoral stems: A meshless approach. <i>Mathematics and Computers in Simulation</i> , <b>2016</b> , 121, 64-94	3.3	13
157	Compressibility and shell failure in the European Atlantic Patella limpets. <i>Marine Biology</i> , <b>2006</b> , 150, 585-597	5.9	13
156	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> , <b>2013</b> , 227, 1324-32	1.7	12
155	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> , <b>2016</b> , 230, 999-1007	1.7	12

154	A general framework for the numerical implementation of anisotropic hyperelastic material models including non-local damage. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2017</b> , 16, 1119-1140	3.8	11
153	The Meshless Methods in the Bone Tissue Remodelling Analysis. <i>Procedia Engineering</i> , <b>2015</b> , 110, 51-58		11
152	Transient analysis of composite and sandwich plates by radial basis functions. <i>Journal of Sandwich Structures and Materials</i> , <b>2011</b> , 13, 681-704	2.1	11
151	Viscous effects in pelvic floor muscles during childbirth: A numerical study. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2018</b> , 34, e2927	2.6	10
150	Mechanical bone remodelling: Comparative study of distinct numerical approaches. <i>Engineering Analysis With Boundary Elements</i> , <b>2019</b> , 100, 125-139	2.6	10
149	Association Between Physical Activity Level and Pelvic Floor Muscle Variables in Women. <i>International Journal of Sports Medicine</i> , <b>2018</b> , 39, 995-1000	3.6	10
148	Numerical analysis of dental implants using a new advanced discretization technique. <i>Mechanics of Advanced Materials and Structures</i> , <b>2016</b> , 23, 467-479	1.8	9
147	Pubovisceralis Muscle Fiber Architecture Determination: Comparison Between Biomechanical Modeling and Diffusion Tensor Imaging. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 1255-1265	4.7	9
146	A semi-implicit finite strain shell algorithm using in-plane strains based on least-squares. <i>Computational Mechanics</i> , <b>2015</b> , 55, 673-696	4	9
145	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> , <b>2018</b> , 88, 120-126 <sup>4.1</sup>		9
144	ANALYSIS OF EARDRUM PATHOLOGIES USING THE FINITE ELEMENT METHOD. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2014</b> , 14, 1450034	0.7	9
143	Vaginal tissue properties versus increased intra-abdominal pressure: a preliminary biomechanical study. <i>Gynecologic and Obstetric Investigation</i> , <b>2011</b> , 71, 145-50	2.5	9
142	Translation of biomechanics research to urogynecology. <i>Archives of Gynecology and Obstetrics</i> , <b>2010</b> , 282, 149-55	2.5	9
141	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> , <b>2006</b> , 68, 1329-1357	2.4	9
140	Modeling the contraction of the pelvic floor muscles. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2016</b> , 19, 347-56	2.1	8
139	The Elasto-plastic Response of the Bone Tissue Due to the Insertion of Dental Implants. <i>Procedia Engineering</i> , <b>2015</b> , 110, 37-44		8
138	Continuum mechanical model for cross-linked actin networks with contractile bundles. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2018</b> , 110, 100-117	5	8
137	Effects of the fibers distribution in the human eardrum: A biomechanical study. <i>Journal of Biomechanics</i> , <b>2016</b> , 49, 1518-1523	2.9	8



136	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> , <b>2017</b> , 20, 1249-1259	2.1	8
135	Numerical Simulation of Hydroforming Process Involving a Tubular Blank with Dissimilar Thickness. <i>Materials and Manufacturing Processes</i> , <b>2007</b> , 22, 286-291	4.1	8
134	Characterizing the Biomechanical Properties of the Pubovisceralis Muscle Using a Genetic Algorithm and the Finite Element Method. <i>Journal of Biomechanical Engineering</i> , <b>2019</b> , 141,	2.1	8
133	The human otitis media with effusion: a numerical-based study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2017</b> , 20, 958-966	2.1	7
132	Characterization of the passive and active material parameters of the pubovisceralis muscle using an inverse numerical method. <i>Journal of Biomechanics</i> , <b>2018</b> , 71, 100-110	2.9	7
131	The free vibrations analysis of the cupula in the inner ear using a natural neighbor meshless method. <i>Engineering Analysis With Boundary Elements</i> , <b>2018</b> , 92, 50-63	2.6	7
130	A level set based algorithm to reconstruct the urinary bladder from multiple views. <i>Medical Engineering and Physics</i> , <b>2013</b> , 35, 1819-24	2.4	7
129	The anisotropic elasto-plastic analysis using a natural neighbour RPIM version. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2017</b> , 39, 1773-1795	2	7
128	The biomechanical effects of stapes replacement by prostheses on the tympano-ossicular chain. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2014</b> , 30, 1409-20	2.6	7
127	Study on the forming of sandwich shells with closed-cell foam cores. <i>International Journal of Material Forming</i> , <b>2014</b> , 7, 413-424	2	7
126	Identification of ulcers and erosions by the novel Pillcam <sup>®</sup> Crohn <sup>®</sup> Capsule using a convolutional neural network: a multicentre pilot study. <i>Journal of Crohn's and Colitis</i> , <b>2021</b> ,	1.5	7
125	Simulation of the uterine contractions and foetus expulsion using a chemo-mechanical constitutive model. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2019</b> , 18, 829-843	3.8	6
124	Moment of inertia as a means to evaluate the biomechanical impact of pelvic organ prolapse. <i>International Journal of Urology</i> , <b>2013</b> , 20, 86-92	2.3	6
123	Biomechanical Study of the Vestibular System of the Inner Ear Using a Numerical Method. <i>Procedia IUTAM</i> , <b>2017</b> , 24, 30-37		6
122	The Natural Neighbor Radial Point Interpolation Method in Computational Fracture Mechanics: A 2D Preliminary Study. <i>International Journal of Computational Methods</i> , <b>2017</b> , 14, 1750045	1.1	6
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120	Facial pressure zones of an oronasal interface for noninvasive ventilation: a computer model analysis. <i>Jornal Brasileiro De Pneumologia</i> , <b>2014</b> , 40, 652-7	1.1	6
119	Estimation of the forces generated by the thigh muscles for transtibial amputee gait. <i>Journal of Biomechanics</i> , <b>2012</b> , 45, 972-7	2.9	6

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117	On the use of element-free Galerkin Method for problems involving incompressibility. <i>Engineering Analysis With Boundary Elements</i> , <b>2007</b> , 31, 103-115	2.6	6
116	A Global Numerical analysis of the "central incisor/local maxillary bone" system using a meshless method. <i>MCB Molecular and Cellular Biomechanics</i> , <b>2014</b> , 11, 151-84	1.2	6
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112	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> , <b>2018</b> , 232, 257-270	1.7	5
111	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> , <b>2010</b> , 153, 110-1	2.4	5
110	Study of sandwich shells with metallic foam cores. <i>International Journal of Material Forming</i> , <b>2010</b> , 3, 903-906	2	5
109	Biomechanical simulation of middle ear using hyperelastic models. <i>Journal of Biomechanics</i> , <b>2006</b> , 39, S388-S389	2.9	5
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99	On the temperature field during superficial grinding: an experimental study. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2009</b> , 40, 1084-1092	3.2 4
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91	Implant shape influence on the mechanical behavior of breast implants <b>2013</b> ,	3
90	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> , <b>2015</b> , 83-90	0.3 3
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87	FEM Analysis of Sandwich Shells with Metallic Foam Cores. <i>Key Engineering Materials</i> , <b>2011</b> , 473, 659-666	0.4 3
86	Numerical Modelling and Experimental Study of Sandwich Shells with Metal Foam Cores. <i>Key Engineering Materials</i> , <b>2012</b> , 504-506, 449-454	0.4 3
85	A numerical study on fetal head molding during labor. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2021</b> , 37, e3411	2.6 3
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81	A holistic view of the effects of episiotomy on pelvic floor. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2017</b> , 33, e2892	2.6	2
80	A Stress Intensity Factor Study for a Pressure Vessel CT Specimen Using Finite Element Method. <i>Structural Integrity</i> , <b>2019</b> , 181-186	0.2	2
79	Biomechanical Analysis of Bone Tissue After Insertion of Dental Implants Using Meshless Methods: Stress Analysis and Osseointegration <b>2019</b> , 393-403		2
78	Determination of the Anisotropic Mechanical Properties of Bone Tissue Using a Homogenization Technique Combined With Meshless Methods <b>2019</b> , 201-213		2
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75	Dynamic assessment of women pelvic floor function by using a fiber Bragg grating sensor system <b>2006</b> ,		2
74	Experimental and Finite Element Analysis of Human Skin Elasticity <b>2003</b> , 303		2
73	Enhanced Assumed Strain Shell and Solid-Shell Elements: Application in Sheet Metal Forming Processes. <i>AIP Conference Proceedings</i> , <b>2004</b> ,	0	2
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68	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> , <b>2020</b> , 225, 111247	4.7	2
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60	Biomechanical Simulation of a Dental Implant using Finite Element Method Analysis * <b>2019</b> ,		1
59	The numerical analysis of a restored tooth using meshless methods <b>2015</b> ,		1
58	The osteointegration numerical prediction of a femur stem using a meshless approach <b>2015</b> ,		1
57	Using an inverse method for optimizing the material constants of the Mooney-Rivlin constitutive model <b>2015</b> ,		1
56	Application of an enhanced homogenization technique to the structural multiscale analysis of a femur bone. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2020</b> , 23, 868-878	2.1	1
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54	Nitinol artificial anterior cruciate ligament: A finite element study <b>2013</b> ,		1
53	Application of virtual reality techniques to a birth simulation <b>2017</b> ,		1
52	Effect of surgical mesh implant in the uterine prolapse correction <b>2015</b> ,		1
51	Fibre Reinforcement in Living Cells: A Preliminary Study of the F-actin Filaments. <i>Procedia Engineering</i> , <b>2015</b> , 110, 2-7		1
50	An elasto-plastic model to analyse the biomechanical behaviour of the atherosclerotic plaque tissue <b>2015</b> ,		1
49	A STATISTICAL STUDY REGARDING THE STATE-OF-THE-ART OF ACTIVE MOTION-ORIENTED ASSISTIVE DEVICES. <i>Biomedical Engineering - Applications, Basis and Communications</i> , <b>2014</b> , 26, 1450047	0.6	1
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42	The Natural Neighbour Radial Point Interpolation Meshless Method Applied to the Non-Linear Analysis <b>2011</b> ,		1
41	Design of a steam-heated sterilizer based on finite element method stress analysis. <i>International Journal of Pressure Vessels and Piping</i> , <b>2001</b> , 78, 627-635	2.4	1
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38	A preliminary study of endothelial cell migration during angiogenesis using a meshless method approach. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2020</b> , 36, e3393	2.6	1
37	Load adaptation through bone remodeling: a mechanobiological model coupled with the finite element method. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2021</b> , 20, 1495-1507	3.8	1
36	Mechanical Effects of a Maylard Scar During a Vaginal Birth After a Previous Caesarean. <i>Annals of Biomedical Engineering</i> , <b>2021</b> , 1	4.7	1
35	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> , <b>2021</b> , 235, 1203-1225	1.3	1
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33	The bending behaviour of antisymmetric cross-ply laminates using high-order shear deformation theories and a Radial Point Interpolation Method. <i>Structures</i> , <b>2021</b> , 32, 1589-1603	3.4	1
32	A new non targeted bone remodeling model combined with an interpolation meshless method. <i>Mathematics and Computers in Simulation</i> , <b>2021</b> , 190, 23-37	3.3	1
31	Finite element modelling of the surgical procedure for placement of a straight electrode array: Mechanical and clinical consequences. <i>Journal of Biomechanics</i> , <b>2021</b> , 129, 110812	2.9	0
30	Biomechanical Simulation of Vaginal Childbirth: The Colors of the Pelvic Floor Muscles <b>2020</b> , 1-17		0
29	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> , <b>2021</b> , 235, 743-750	1.7	0



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22	The Elasto-plastic Analysis of Polymers Subject to Traction and Compression Using Advanced Discretization Techniques. <i>Structural Integrity</i> , <b>2019</b> , 401-406	0.2	
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19	Biomechanical Analysis of the Damage in the Pelvic Floor Muscles During Childbirth. <i>Lecture Notes in Computational Vision and Biomechanics</i> , <b>2018</b> , 133-142	0.3	
18	Searching for the Tissue Mechanical Properties in Pelvic Floor Dysfunction by Computational Modeling. <i>Lecture Notes in Computational Vision and Biomechanics</i> , <b>2018</b> , 203-215	0.3	
17	Variation of elasticity in the pelvic floor muscles for incontinent and prolapsed women. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , <b>2017</b> , 211, 203	2.4	
16	Optimisation of Tubular Hydroforming Processes for Wrinkling and Thinning Control. <i>Key Engineering Materials</i> , <b>2011</b> , 473, 159-167	0.4	
15	Meshless methods in oral biomechanics <b>2017</b> , 29-34		
14	Computational simulation of the vestibular system using a meshless particle method <b>2019</b> , 129-134		
13	Development of a Constitutive Model to Predict the Elasto-Plastic Behaviour of 3D-Printed Thermoplastics: A Meshless Formulation. <i>Advanced Structured Materials</i> , <b>2020</b> , 311-329	0.6	
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9	Biomechanical Study of the Cervical Spine. <i>Lecture Notes in Computational Vision and Biomechanics</i> , <b>2015</b> , 91-103	0.3
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6	Estudo do comportamento do ouvido médio considerando a presença de fluido. <i>Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria</i> , <b>2016</b> , 32, 188-191	1.8
5	A meshless study of antisymmetric angle-ply laminates using high-order shear deformation theories. <i>Composite Structures</i> , <b>2021</b> , 255, 112795	5.3
4	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> , <b>2022</b> , 236, 72-83	1.7
3	Biomechanical characterization of the small intestine to simulate gastrointestinal tract chyme propulsion.. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2022</b> , e3588	2.6
2	Interaction of Abdominal and Pelvic Floor Muscles <b>2022</b> , 235-245	
1	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> , <b>2022</b> , 104908	5