BegoÃ'a Calvo

List of Publications by Year
in descending order

147 papers	4,367 citations	109264 35 h-index	128225 60 g-index
148 all docs	148 docs citations	148 times ranked	3259 citing authors

#	Article	IF	Citations
1	A three-dimensional finite element analysis of the combined behavior of ligaments and menisci in the healthy human knee joint. Journal of Biomechanics, 2006, 39, 1686-1701.	0.9	391
2	Finite element analysis of the effect of meniscal tears and meniscectomies on human knee biomechanics. Clinical Biomechanics, 2005, 20, 498-507.	0.5	240
3	Why lateral meniscectomy is more dangerous than medial meniscectomy. A finite element study. Journal of Orthopaedic Research, 2006, 24, 1001-1010.	1.2	148
4	Biomechanical Modeling of Refractive Corneal Surgery. Journal of Biomechanical Engineering, 2006, 128, 150-160.	0.6	135
5	Overview and recent advances in natural neighbour galerkin methods. Archives of Computational Methods in Engineering, 2003, 10, 307-384.	6.0	132
6	An uncoupled directional damage model for fibred biological soft tissues. Formulation and computational aspects. International Journal for Numerical Methods in Engineering, 2007, 69, 2036-2057.	1.5	126
7	A finite element model to accurately predict real deformations of the breast. Medical Engineering and Physics, 2008, 30, 1089-1097.	0.8	100
8	Passive nonlinear elastic behaviour of skeletal muscle: Experimental results and model formulation. Journal of Biomechanics, 2010, 43, 318-325.	0.9	91
9	An anisotropic visco-hyperelastic model for ligaments at finite strains. Formulation and computational aspects. International Journal of Solids and Structures, 2007, 44, 760-778.	1.3	89
10	Mechanical behaviour of synthetic surgical meshes: Finite element simulation of the herniated abdominal wall. Acta Biomaterialia, 2011, 7, 3905-3913.	4.1	87
11	An accurate finite element model of the cervical spine under quasi-static loading. Journal of Biomechanics, 2008, 41, 523-531.	0.9	82
12	A finite element simulation of the effect of graft stiffness and graft tensioning in ACL reconstruction. Clinical Biomechanics, 2005, 20, 636-644.	0.5	80
13	Effect of the size and location of osteochondral defects in degenerative arthritis. A finite element simulation. Computers in Biology and Medicine, 2007, 37, 376-387.	3.9	80
14	On modelling damage process in vaginal tissue. Journal of Biomechanics, 2009, 42, 642-651.	0.9	74
15	Coupled Biomechanical Response of the Cornea Assessed by Non-Contact Tonometry. A Simulation Study. PLoS ONE, 2015, 10, e0121486.	1.1	72
16	Mechanical and histological characterization of the abdominal muscle. A previous step to modelling hernia surgery. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 392-404.	1.5	70
17	Evaluation of In Vitro Efficacy of Combined Riboflavin and Ultraviolet A for Acanthamoeba Isolates. American Journal of Ophthalmology, 2012, 153, 399-404.	1.7	70
18	Structural damage models for fibrous biological soft tissues. International Journal of Solids and Structures, 2007, 44, 5894-5911.	1.3	65

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19	Mechanical characterization of the softening behavior of human vaginal tissue. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 275-283.	1.5	64
20	Biomechanical property analysis after corneal collagen cross-linking in relation to ultraviolet A irradiation time. Graefe's Archive for Clinical and Experimental Ophthalmology, 2011, 249, 1223-1227.	1.0	63
21	Mechanical characterization and constitutive modelling of the damage process in rectus sheath. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 8, 111-122.	1.5	63
22	On the employ of meshless methods in biomechanics. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 801-821.	3.4	62
23	Finite element simulation of arcuates for astigmatism correction. Journal of Biomechanics, 2008, 41, 797-805.	0.9	62
24	Sequential Non-Rigid Structure from Motion Using Physical Priors. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 979-994.	9.7	62
25	Experimental study and constitutive modeling of the viscoelastic mechanical properties of the human prolapsed vaginal tissue. Biomechanics and Modeling in Mechanobiology, 2010, 9, 35-44.	1.4	60
26	On finiteâ€strain damage of viscoelasticâ€fibred materials. Application to soft biological tissues. International Journal for Numerical Methods in Engineering, 2008, 74, 1198-1218.	1.5	57
27	Good Vibrations: A Modal Analysis Approach for Sequential Non-rigid Structure from Motion. , 2014, , .		52
28	Understanding the Passive Mechanical Behavior of the Human Abdominal Wall. Annals of Biomedical Engineering, 2013, 41, 433-444.	1.3	51
29	Influence of the tunnel angle in ACL reconstructions on the biomechanics of the knee joint. Clinical Biomechanics, 2006, 21, 508-516.	0.5	50
30	Computational Modelling of Diarthrodial Joints. Physiological, Pathological and Pos-Surgery Simulations. Archives of Computational Methods in Engineering, 2007, 14, 47-91.	6.0	47
31	Long-term anisotropic mechanical response of surgical meshes used to repair abdominal wall defects. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 5, 257-271.	1.5	44
32	A 3D electro-mechanical continuum model for simulating skeletal muscle contraction. Journal of Theoretical Biology, 2013, 335, 108-118.	0.8	44
33	Modelling three-dimensional piece-wise homogeneous domains using theÎ±-shape-based natural element method. International Journal for Numerical Methods in Engineering, 2002, 54, 871-897.	1.5	43
34	On the numerical treatment of initial strains in biological soft tissues. International Journal for Numerical Methods in Engineering, 2006, 68, 836-860.	1.5	42
35	Prediction of nonlinear elastic behaviour of vaginal tissue: experimental results and model formulation. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 327-337.	0.9	38
36	Automatized Patient-Specific Methodology for Numerical Determination of Biomechanical Corneal Response. Annals of Biomedical Engineering, 2016, 44, 1753-1772.	1.3	38

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37	Computer simulation of damage on distal femoral articular cartilage after meniscectomies. Computers in Biology and Medicine, 2008, 38, 69-81.	3.9	37
38	On solving large strain hyperelastic problems with the natural element method. International Journal for Numerical Methods in Engineering, 2005, 62, 159-185.	1.5	36
39	A 3D active-passive numerical skeletal muscle model incorporating initial tissue strains. Validation with experimental results on rat tibialis anterior muscle. Biomechanics and Modeling in Mechanobiology, 2011, 10, 779-787.	1.4	34
40	The long-term behavior of lightweight and heavyweight meshes used to repair abdominal wall defects is determined by the host tissue repair process provoked by the mesh. Surgery, 2012, 152, 886-895.	1.0	33
41	Numerical simulation of the damage evolution in the pelvic floor muscles during childbirth. Journal of Biomechanics, 2016, 49, 594-601.	0.9	32
42	A biomechanical analysis on the impact of episiotomy during childbirth. Biomechanics and Modeling in Mechanobiology, 2016, 15, 1523-1534.	1.4	31
43	Finite element simulation of the hysteretic behaviour of an industrial rubber. Application to design of rubber components. Finite Elements in Analysis and Design, 2010, 46, 357-368.	1.7	30
44	Finite Element based sequential Bayesian Non-Rigid Structure from Motion. , 2012, , .		30
45	Kinematic assessment of paediatric forefoot varus. Gait and Posture, 2009, 29, 214-219.	0.6	29
46	Mechanical Response of the Herniated Human Abdomen to the Placement of Different Prostheses. Journal of Biomechanical Engineering, 2013, 135, 51004.	0.6	28
47	Active behavior of abdominal wall muscles: Experimental results and numerical model formulation. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 61, 444-454.	1.5	28
48	On the imposition of essential boundary conditions in natural neighbour Galerkin methods. Communications in Numerical Methods in Engineering, 2003, 19, 361-376.	1.3	27
49	A comparison of implicit and explicit natural element methods in large strains problems: Application to soft biological tissues modeling. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1691-1700.	3.4	27
50	Hyperelastic modelling of the crystalline lens: Accommodation and presbyopia. Journal of Optometry, 2012, 5, 110-120.	0.7	27
51	Hydro-mechanical analysis of CO_2 storage in porous rocks using a critical state model. International Journal of Rock Mechanics and Minings Sciences, 2012, 54, 19-26.	2.6	26
52	Online Dense Non-Rigid 3D Shape and Camera Motion Recovery. , 2014, , .		26
53	A comparison between pseudo-elastic and damage models for modelling the Mullins effect in industrial rubber components. Mechanics Research Communications, 2009, 36, 769-776.	1.0	25
54	Flow path development in different CO_2 storage reservoir scenarios. Engineering Geology, 2012, 127, 54-64.	2.9	25

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55	A predictive tool for determining patient-specific mechanical properties of human corneal tissue. Computer Methods in Applied Mechanics and Engineering, 2017, 317, 226-247.	3.4	25
56	In-vitro development of an effective treatment for Acanthamoeba keratitis. International Journal of Antimicrobial Agents, 2017, 50, 325-333.	1.1	24
57	CMOS Voltage-to-Frequency Converter With Temperature Drift Compensation. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3232-3234.	2.4	23
58	Portable low-power electronic interface for explosive detection using microcantilevers. Sensors and Actuators B: Chemical, 2014, 200, 31-38.	4.0	22
59	Real-time 3D reconstruction of non-rigid shapes with a single moving camera. Computer Vision and Image Understanding, 2016, 153, 37-54.	3.0	22
60	A constitutive model for porous rock including effects of bond strength degradation and partial saturation. International Journal of Rock Mechanics and Minings Sciences, 2010, 47, 1330-1338.	2.6	20
61	Determination of passive viscoelastic response of the abdominal muscle and related constitutive modeling: Stress-relaxation behavior. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 36, 47-58.	1.5	20
62	Template-based methodology for the simulation of intracorneal segment ring implantation in human corneas. Biomechanics and Modeling in Mechanobiology, 2018, 17, 923-938.	1.4	20
63	Developing a new methodology to characterize in vivo the passive mechanical behavior of abdominal wall on an animal model. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 51, 40-49.	1.5	19
64	Active response of skeletal muscle: In vivo experimental results and model formulation. Journal of Theoretical Biology, 2010, 267, 546-553.	0.8	18
65	Variations in Tendon Stiffness Due to Diets with Different Glycotoxins Affect Mechanical Properties in the Muscle-Tendon Unit. Annals of Biomedical Engineering, 2013, 41, 488-496.	1.3	18
66	Application of the natural element method to finite deformation inelastic problems in isotropic and fiber-reinforced biological soft tissues. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 1983-1996.	3.4	17
67	Reliability of Noncontact Pachymetry after Laser In Situ Keratomileusis. , 2009, 50, 4135.		17
68	New suture materials for midline laparotomy closure: an experimental study. BMC Surgery, 2014, 14, 70.	0.6	17
69	Biaxial Mechanical Evaluation of Absorbable and Nonabsorbable Synthetic Surgical Meshes Used for Hernia Repair: Physiological Loads Modify Anisotropy Response. Annals of Biomedical Engineering, 2016, 44, 2181-2188.	1.3	16
70	Modal Space: A Physics-Based Model for Sequential Estimation of Time-Varying Shape from Monocular Video. Journal of Mathematical Imaging and Vision, 2017, 57, 75-98.	0.8	16
71	A numerical-experimental protocol to characterize corneal tissue with an application to predict astigmatic keratotomy surgery. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 74, 304-314.	1.5	16
72	Lower- and higher-order aberrations predicted by an optomechanical model of arcuate keratotomy for astigmatism. Journal of Cataract and Refractive Surgery, 2009, 35, 158-165.	0.7	15

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73	Effect of Limbal Relaxing Incisions During Phacoemulsification Surgery Based on Nomogram Review and Numerical Simulation. Cornea, 2009, 28, 1042-1049.	0.9	15
74	Short- and long-term biomechanical and morphological study of new suture types in abdominal wall closure. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 37, 1-11.	1.5	14
75	Towards the mechanical characterization of abdominal wall by inverse analysis. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 66, 127-137.	1.5	14
76	Thermal analysis of a cooking pan with a power control induction system. Applied Thermal Engineering, 2020, 180, 115789.	3.0	14
77	A validated finite element model to reproduce Helmholtzâ€™s theory of accommodation: a powerful tool to investigate presbyopia. Ophthalmic and Physiological Optics, 2021, 41, 1241-1253.	1.0	14
78	Computational framework to model and design surgical meshes for hernia repair. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 1071-1085.	0.9	13
79	Prostheses size dependency of the mechanical response of the herniated human abdomen. Hernia: the Journal of Hernias and Abdominal Wall Surgery, 2016, 20, 839-848.	0.9	13
80	Mode-shape interpretation: Re-thinking modal space for recovering deformable shapes. , 2016, , .		13
81	Fluidâ€"structure simulation of a general non-contact tonometry. A required complexity?. Computer Methods in Applied Mechanics and Engineering, 2018, 340, 202-215.	3.4	13
82	FEM models to code non-rigid EKF monocular SLAM. , 2011, , .		12
83	Systematic Study on the Biomechanical Stability of C-Loop Intraocular Lenses: Approach to an Optimal Design of the Haptics. Annals of Biomedical Engineering, 2020, 48, 1127-1136.	1.3	12
84	Corneal Biomechanics After Intrastromal Ring Surgery: Optomechanical In Silico Assessment. Translational Vision Science and Technology, 2020, 9, 26.	1.1	12
85	A Rabbit Model of <i>Acanthamoeba</i> Keratitis: Use of Infected Soft Contact Lenses After Corneal Epithelium Debridement With a Diamond Burr. , 2017, 58, 1218.		11
86	A NDIR-based CO2 monitor system for wireless sensor networks. , 2012, , .		10
87	On Using Model Populations to Determine Mechanical Properties of Skeletal Muscle. Application to Concentric Contraction Simulation. Annals of Biomedical Engineering, 2015, 43, 2444-2455.	1.3	10
88	The management of episiotomy technique and its effect on pelvic floor muscles during a malposition childbirth. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 1249-1259.	0.9	10
89	Influence of material and haptic design on the mechanical stability of intraocular lenses by means of finite-element modeling. Journal of Biomedical Optics, 2018, 23, 1.	1.4	10
90	On simulating sustained isometric muscle fatigue: a phenomenological model considering different fiber metabolisms. Biomechanics and Modeling in Mechanobiology, 2014, 13, 1373-1385.	1.4	9

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91	Mechanical behavior of surgical meshes for abdominal wall repair: In vivo versus biaxial characterization. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 102-111.	1.5	9
92	Experimental and computational analysis of microbial inactivation in a solid by ohmic heating using pulsed electric fields. Innovative Food Science and Emerging Technologies, 2020, 65, 102440.	2.7	9
93	A numerical investigation of changes in lens shape during accommodation. Scientific Reports, 2021, 11, 9639.	1.6	9
94	3D Reconstruction of Non-Rigid Surfaces in Real-Time Using Wedge Elements. Lecture Notes in Computer Science, 2012, , 113-122.	1.0	9
95	Computational Simulation of Scleral Buckling Surgery for Rhegmatogenous Retinal Detachment: On the Effect of the Band Size on the Myopization. Journal of Ophthalmology, 2016, 2016, 1-10.	0.6	8
96	Biomechanical and morphological study of a new elastic mesh (Ciberlastic) to repair abdominal wall defects. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 366-378.	1.5	8
97	Development and validation of a computational model for steak double-sided pan cooking. Journal of Food Engineering, 2021, 298, 110498.	2.7	8
98	Why Non-contact Tonometry Tests Cannot Evaluate the Effects of Corneal Collagen Cross-linking. Journal of Refractive Surgery, 2017, 33, 184-192.	1.1	8
99	The Effect of Intraocular Pressure on the Outcome of Myopic Photorefractive Keratectomy: A Numerical Approach. Journal of Healthcare Engineering, 2010, 1, 461-476.	1.1	7
100	Customised Selection of the Haptic Design in C-Loop Intraocular Lenses Based on Deep Learning. Annals of Biomedical Engineering, 2020, 48, 2988-3002.	1.3	7
101	Effect of haptic geometry in C-loop intraocular lenses on optical quality. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 114, 104165.	1.5	7
102	Experimental evaluation of the injection force exerted in intraocular lens delivery with syringe-type injectors. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 124, 104793.	1.5	7
103	Improving the microbial inactivation uniformity of pulsed electric field ohmic heating treatments of solid products. LWT - Food Science and Technology, 2022, 154, 112709.	2.5	7
104	Immediate Effect of Ultraviolet-A Collagen Cross-linking Therapy on the Biomechanics and Histology of the Human Cornea. Journal of Refractive Surgery, 2015, 31, 70-71.	1.1	6
105	Biomechanical Stability of Three Intraocular Lenses With Different Haptic Designs: In Silico and In Vivo Evaluation. Journal of Refractive Surgery, 2020, 36, 617-624.	1.1	6
106	Automated segmentation of the ciliary muscle in OCT images using fully convolutional networks. Biomedical Optics Express, 2022, 13, 2810.	1.5	6
107	Three-Dimensional Geometries Representing the Retinal Nerve Fiber Layer in Multiple Sclerosis, Optic Neuritis, and Healthy Eyes. Ophthalmic Research, 2013, 50, 72-81.	1.0	5
108	Interaction between diurnal variations of intraocular pressure, pachymetry, and corneal response to an air puff: Preliminary evidence. JCRS Online Case Reports, 2015, 3, 12-15.	0.1	5

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109	A holistic view of the effects of episiotomy on pelvic floor. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2892.	1.0	5
110	Assessing the role of Ca2+ in skeletal muscle fatigue using a multi-scale continuum model. Journal of Theoretical Biology, 2019, 461, 76-83.	0.8	5
111	Color changes in beef meat during pan cooking: kinetics, modeling and application to predict turn over time. European Food Research and Technology, 2021, 247, 2751-2764.	1.6	5
112	A Novel CMOS Envelope Detector Structure. , 2007, , .		4
113	The Miller×³s knot as an alternative to the surgical knotting? Characterization of the mechanical behavior. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 38, 154-162.	1.5	4
114	Biomechanical and histologic evaluation of two application forms of surgical glue for mesh fixation to the abdominal wall. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 434-441.	1.5	4
115	Long term comparative evaluation of two types of absorbable meshes in partial abdominal wall defects: an experimental study in rabbits. Hernia: the Journal of Hernias and Abdominal Wall Surgery, 2020, 24, 1159-1173.	0.9	4
116	Muscular and Tendon Degeneration after Achilles Rupture: New Insights into Future Repair Strategies. Biomedicines, 2022, 10, 19.	1.4	4
117	Data management of Wireless Sensor Network implemented in rural environments with SMS communication protocol. , 2011, , .		3
118	WubiNet: A flexible WSN for applications in environmental monitoring. , 2012, , .		3
119	Modeling domestic pancake cooking incorporating the rheological properties of the batter. Application to seven batter recipes. Journal of Food Engineering, 2021, 291, 110261.	2.7	3
120	Mechanical characterisation of hydrophobic and hydrophilic acrylates used in intraocular lenses through depth sensing indentation. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 126, 104997.	1.5	3
121	Short-term behavior of different polymer structure lightweight meshes used to repair abdominal wall defects. Histology and Histopathology, 2013, 28, 611-21.	0.5	3
122	Human Abdomen. , 2017, , 267-285.		2
123	Simulating Extraocular Muscle Dynamics. A Comparison between Dynamic Implicit and Explicit Finite Element Methods. Mathematics, 2021, 9, 1024.	1.1	2
124	Predicting the biomechanical stability of IOLs inside the postcataract capsular bag with a finite element model. Computer Methods and Programs in Biomedicine, 2022, 221, 106868.	2.6	2
125	An electronic interface for measuring CO2 emissions in embedded systems. , 2012, , .		1
126	Explosives Detection by array of Si μ-cantilevers coated with titanosilicate type nanoporous materials. , 2014, , .		1

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127	RegeneraciÃ³n tisular de la pared abdominal despuÃ©s del implante de una nueva malla quirÃºrgica macroporosa compuesta por politetrafluoroetileno no expandido. Revista Hispanoamericana De Hernia, 2015, 3, 17-25.	0.1	1
128	Effect of Cryopreserved Amniotic Membrane on the Mechanical Properties of Skeletal Muscle after Strabismus Surgery in Rabbits. Current Eye Research, 2018, 43, 193-199.	0.7	1
129	Can Numerical Modelling Help Surgeons inÂAbdominal Hernia Surgery?. Lecture Notes in Computational Vision and Biomechanics, 2014, , 167-185.	0.5	1
130	Patient-Specific Biomechanical Framework for Aiding Clinical Decisions in Eye Surgery. Lecture Notes in Computational Vision and Biomechanics, 2012, , 161-193.	0.5	1
131	A Combined Experimental-Numerical Investigation of the Thermal Efficiency of the Vessel in Domestic Induction Systems. Mathematics, 2022, 10, 802.	1.1	1
132	A Numerical Approach to Analyze the Performance of a PEF-Ohmic Heating System in Microbial Inactivation of Solid Food. Frontiers in Food Science and Technology, 0, 2, .	1.2	1
133	1.8 V.0.35 μm CMOS wideband programmable gain amplifier. , 0, , .		0
134	ON MODELING SOFT BIOLOGICAL TISSUES WITH THE NATURAL ELEMENT METHOD. , 2007, , 87-116.		0
135	Analogue-digital interface for low-cost sensors in low-power sensing networks. , 2009, , .		0
136	Analysis and implementation of a wireless sensor network with remote access through SMS. , 2012, , .		0
137	Other Applications: Engineering. Advanced Structured Materials, 2013, , 253-398.	0.3	0
138	A structural damage model for pelvic floor muscles. , 2015, , .		0
139	Simulation of Mechanical Force in Skeletal Muscle According to the Intracellular $Ca^{2}+$ Concentration Level. , 2017, , .		0
140	A quantitative method for the detection of muscle functional active and passive behavior recovery in models of damage-regeneration. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 1594-1603.	0.7	0
141	Use of 2% hydroxypropyl methylcellulose to prevent the corneal swelling during the inÂvitro mechanical characterization. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 809-816.	0.7	0
142	A numerical model of the eye for simulation of corneal surgery and corneal biomechanical properties. Acta Ophthalmologica, 2010, 88, 0-0.	0.6	0
143	Numerical Modelling of Human Breast Deformation. , 2012, , 985-995.		0
144	Combined treatments for keratoconus: a numerical approach. Acta Ophthalmologica, 2012, 90, 0-0.	0.6	0

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145	Influence of intraocular pressure on the photorefractive keratectomy for myopia correction. a numerical analysis. Acta Ophthalmologica, 2012, 90, 0-0.	0.6	0
146	Fundamental Aspects in Modelling the Constitutive Behaviour of Fibered Soft Tissues. SEMA SIMAI Springer Series, 2014, , 3-49.	0.4	0
147	Why Indentation Cannot Be Considered Exactly Equivalent to Non-contact Tonometry. Journal of Refractive Surgery, 2017, 33, 496-496.	1.1	0