

Luciano Teresi

List of Publications by Year in descending order

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84
papers

1,684
citations

331259

21
h-index

315357

38
g-index

87
all docs

87
docs citations

87
times ranked

1459
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphing of soft structures driven by active swelling: a numerical study. <i>International Journal of Non-Linear Mechanics</i> , 2022, 141, 103951.	1.4	1
2	Patient-specific modeling of left ventricle mechanics. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	1.5	3
3	Stress-free morphing by means of compatible distortions. <i>Physical Review E</i> , 2022, 106, .	0.8	0
4	Mechanics of active gel spheres under bulk contraction. <i>International Journal of Mechanical Sciences</i> , 2021, 193, 106147.	3.6	8
5	Target metric and Shell Shaping. <i>Curved and Layered Structures</i> , 2021, 8, 13-25.	0.5	1
6	Transporting Deformations of Face Emotions in the Shape Spaces: A Comparison of Different Approaches. <i>Journal of Mathematical Imaging and Vision</i> , 2021, 63, 875-893.	0.8	3
7	Local and global energies for shape analysis in medical imaging. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3252.	1.0	3
8	Shape deformation from metric $\hat{\epsilon}$'s transport. <i>International Journal of Non-Linear Mechanics</i> , 2020, 119, 103326.	1.4	2
9	Dynamics of active swelling in contractile polymer gels. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 135, 103807.	2.3	8
10	Modeling solvent dynamics in polymers with solvent-filled cavities. <i>Mechanics of Soft Materials</i> , 2020, 2, 1.	0.4	2
11	Parallel transport of local strains. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2019, 7, 520-528.	1.3	0
12	Non-invasive prediction of genotype positive phenotype negative in hypertrophic cardiomyopathy by 3D modern shape analysis. <i>Experimental Physiology</i> , 2019, 104, 1688-1700.	0.9	11
13	Diffusion-driven stress relaxation of gels under incremental planar extensions. <i>Mechanics of Materials</i> , 2019, 134, 106-114.	1.7	1
14	Swelling effects on localized adhesion of an elastic ribbon. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190067.	1.0	1
15	The heart function as a motor-brake system. <i>Journal of Theoretical Biology</i> , 2019, 467, 23-30.	0.8	6
16	A multi-physics approach for modeling hygroscopic behavior in wood low-tech architectural adaptive systems. <i>CAD Computer Aided Design</i> , 2019, 106, 43-53.	1.4	28
17	The decomposition of deformation: New metrics to enhance shape analysis in medical imaging.. <i>Medical Image Analysis</i> , 2018, 46, 35-56.	7.0	9
18	Driving water cavitation in a hydrogel cavity. <i>Soft Matter</i> , 2018, 14, 2310-2321.	1.2	14

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19	Statistical Shape Modeling of the Left Ventricle: Myocardial Infarct Classification Challenge. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 503-515.	3.9	61
20	Growth-induced compatible strains. Mathematics and Mechanics of Solids, 2017, 22, 62-71.	1.5	12
21	Swelling and growth: a constitutive framework for active solids. Meccanica, 2017, 52, 3443-3456.	1.2	16
22	Mathematical model for isometric and isotonic muscle contractions. Journal of Theoretical Biology, 2017, 425, 1-10.	0.8	12
23	Do the ornamented osteoderms influence the heat conduction through the skin? A finite element analysis in Crocodylomorpha. Journal of Thermal Biology, 2017, 69, 39-53.	1.1	15
24	Morphologically normalized left ventricular motion indicators from MRI feature tracking characterize myocardial infarction. Scientific Reports, 2017, 7, 12259.	1.6	15
25	Transient instabilities in the swelling dynamics of a hydrogel sphere. Journal of Applied Physics, 2017, 122, .	1.1	28
26	Homeostatic Left Heart integration and disintegration links atrio-ventricular covariationâ€™s dyshomeostasis in Hypertrophic Cardiomyopathy. Scientific Reports, 2017, 7, 6257.	1.6	16
27	New finite element study protocol: Clinical simulation of orthodontic tooth movement. International Orthodontics, 2017, 15, 165-179.	0.6	18
28	The TPS Direct Transport: A New Method for Transporting Deformations in the Size-and-Shape Space. International Journal of Computer Vision, 2017, 124, 384-408.	10.9	14
29	Muscle Contraction and Pressure-Volume Loops in the Left-Heart. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S43-S44.	0.9	0
30	The conceptual framework of ontogenetic trajectories: parallel transport allows the recognition and visualization of pure deformation patterns. Evolution & Development, 2016, 18, 182-200.	1.1	5
31	Actuation performances of anisotropic gels. Journal of Applied Physics, 2016, 120, .	1.1	14
32	A comparative analysis of the strain-line pattern in the human left ventricle: experiments vs modelling. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2016, 4, 164-173.	1.3	6
33	Modeling and simulation of fish swimming with active muscles. Journal of Theoretical Biology, 2016, 409, 18-26.	0.8	23
34	Left Atrial trajectory impairment in Hypertrophic Cardiomyopathy disclosed by Geometric Morphometrics and Parallel Transport. Scientific Reports, 2016, 6, 34906.	1.6	9
35	Systo-Diastolic LV Shape Analysis by Geometric Morphometrics and Parallel Transport Highly Discriminates Myocardial Infarction. Lecture Notes in Computer Science, 2016, , 119-129.	1.0	7
36	Continuum theory of swelling material surfaces with applications to thermo-responsive gel membranes and surface mass transport. Journal of the Mechanics and Physics of Solids, 2016, 89, 96-109.	2.3	20

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37	Digging adaptation in insectivorous subterranean eutherians. The enigma of <i>Mesoscolops montanensis</i> unveiled by geometric morphometrics and finite element analysis. <i>Journal of Morphology</i> , 2015, 276, 1157-1171.	0.6	27
38	Steady and transient analysis of anisotropic swelling in fibered gels. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	20
39	Variation in the shape and mechanical performance of the lower jaws in ceratopsid dinosaurs (Ornithischia, Ceratopsia). <i>Journal of Anatomy</i> , 2015, 227, 631-646.	0.9	17
40	Structure of tracheae and the functional implications for collapse in the American cockroach. <i>Bioinspiration and Biomimetics</i> , 2015, 10, 066011.	1.5	14
41	Mechanics of Bio-hybrid Systems. <i>Procedia IUTAM</i> , 2015, 12, 145-153.	1.2	0
42	Cope's Rule and the Universal Scaling Law of Ornament Complexity. <i>American Naturalist</i> , 2015, 186, 165-175.	1.0	10
43	Non-invasive assessment of functional strain lines in the real human left ventricle via speckle tracking echocardiography. <i>Journal of Biomechanics</i> , 2015, 48, 465-471.	0.9	19
44	STRAIN ANALYSIS OF CARDIAC TISSUES FROM 3D ULTRASOUND IMAGES USING SNAKES AND SPECKLE TRACKING. <i>Journal of Mechanics in Medicine and Biology</i> , 2015, 15, 1540012.	0.3	1
45	COMPARING SHAPE TRAJECTORIES OF BIOLOGICAL SOFT TISSUES IN THE SIZE-AND-SHAPE SPACE. , 2015, , .		10
46	Anisotropic swelling of thin gel sheets. <i>Soft Matter</i> , 2015, 11, 1492-1499.	1.2	34
47	Continuum Mechanics Meets Echocardiographic Imaging: Investigation on the Principal Strain Lines in Human Left Ventricle. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2015, , 41-54.	0.5	2
48	A New 4D Trajectory-Based Approach Unveils Abnormal LV Revolution Dynamics in Hypertrophic Cardiomyopathy. <i>PLoS ONE</i> , 2015, 10, e0122376.	1.1	16
49	Multiphysics of bio-hybrid systems: shape control and electro-induced motion. <i>Smart Materials and Structures</i> , 2014, 23, 045043.	1.8	7
50	Morphological integration and functional modularity in the crocodylian skull. <i>Integrative Zoology</i> , 2014, 9, 498-516.	1.3	45
51	4D-Analysis of Left Ventricular Heart Cycle Using Procrustes Motion Analysis. <i>PLoS ONE</i> , 2014, 9, e86896.	1.1	27
52	Modeling helicoid to spiral-ribbon transitions of twist-nematic elastomers. <i>Soft Matter</i> , 2013, 9, 3081.	1.2	38
53	Bite of the Cats: Relationships between Functional Integration and Mechanical Performance as Revealed by Mandible Geometry. <i>Systematic Biology</i> , 2013, 62, 878-900.	2.7	63
54	Strain analysis of cardiac tissues from 3D ultrasound images through speckle tracking. , 2013, , .		0

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55	The elastic metric: A review of elasticity with large distortions. <i>International Journal of Non-Linear Mechanics</i> , 2013, 56, 34-42.	1.4	22
56	Transient analysis of swelling-induced large deformations in polymer gels. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 205-218.	2.3	156
57	Electromechanical modeling of anisotropic cardiac tissues. <i>Mathematics and Mechanics of Solids</i> , 2013, 18, 576-591.	1.5	10
58	On the strainâ€”line patterns in a real human left ventricle. , 2013, , 19-24.		3
59	Strain induced shape formation in fibred cylindrical tubes. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 1420-1431.	2.3	14
60	Testing convergent and parallel adaptations in talpids humeral mechanical performance by means of geometric morphometrics and finite element analysis. <i>Journal of Morphology</i> , 2012, 273, 696-711.	0.6	49
61	Advantages in the torsional performances of a simplified cylindrical geometry due to transmural differential contractile properties. <i>European Journal of Mechanics, A/Solids</i> , 2012, 36, 173-179.	2.1	4
62	A simplified mechanical modeling for myocardial contractions and the ventricular pressureâ€”volume relationships. <i>Mechanics Research Communications</i> , 2011, 38, 532-535.	1.0	8
63	Torsion of the human left ventricle: Experimental analysis and computational modeling. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 107, 112-121.	1.4	38
64	Torsional deformations in incompressible fibre-reinforced cylindrical pipes. <i>European Journal of Mechanics, A/Solids</i> , 2010, 29, 266-273.	2.1	4
65	Thermally Driven Giant Bending of Liquid Crystal Elastomer Films with Hybrid Alignment. <i>Macromolecules</i> , 2010, 43, 4362-4369.	2.2	107
66	Electromechanical Modelling of Cardiac Tissue. , 2010, , 421-449.		4
67	Mechanical Response of Helically Wound Fiber-Reinforced Incompressible Non-linearly Elastic Pipes. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2010, , 79-87.	2.0	1
68	Novel design of drug delivery in stented arteries: A numerical comparative study. <i>Mathematical Biosciences and Engineering</i> , 2009, 6, 493-508.	1.0	27
69	The shadow of forgotten ancestors differently constrains the fate of Alligatoroidea and Crocodyloidea. <i>Global Ecology and Biogeography</i> , 2009, 18, 30-40.	2.7	24
70	Elastic energies for nematic elastomers. <i>European Physical Journal E</i> , 2009, 29, 191-204.	0.7	98
71	An electromechanical model of cardiac tissue: Constitutive issues and electrophysiological effects. <i>Progress in Biophysics and Molecular Biology</i> , 2008, 97, 562-573.	1.4	107
72	Dynamics of Electro-Opto-Mechanical Effects in Swollen Nematic Elastomers. <i>Macromolecules</i> , 2008, 41, 9389-9396.	2.2	63

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73	Critical voltages and blocking stresses in nematic gels. <i>European Physical Journal E</i> , 2007, 24, 303-10.	0.7	21
74	On the Active Response of Soft Living Tissues. <i>Journal of Elasticity</i> , 2007, 88, 27-39.	0.9	102
75	A one-dimensional model for blood flow in prestressed vessels. <i>European Journal of Mechanics, A/Solids</i> , 2005, 24, 23-33.	2.1	11
76	Constitutive identification of affine rods. <i>Mechanics Research Communications</i> , 2003, 30, 61-68.	1.0	0
77	The Influence of Initial Stresses on Blood Vessel Mechanics. <i>Journal of Mechanics in Medicine and Biology</i> , 2003, 03, 215-229.	0.3	1
78	A direct theory of affine rods. <i>European Journal of Mechanics, A/Solids</i> , 2002, 21, 653-667.	2.1	6
79	A damage mechanics approach to stress softening and its application to rubber. <i>European Journal of Mechanics, A/Solids</i> , 2001, 20, 873-892.	2.1	38
80	A direct theory of affine bodies. <i>International Journal of Engineering Science</i> , 2000, 38, 865-878.	2.7	3
81	On Variational Approaches to Plate Modes. <i>Meccanica</i> , 1997, 32, 143-156.	1.2	16
82	Lie groups and the compatibility conditions for continua with rigid structure. <i>International Journal of Engineering Science</i> , 1997, 35, 1195-1202.	2.7	1
83	Numerical modelling of structural cooling in Mediterranean climate. <i>International Journal of Ventilation</i> , 0, , 1-18.	0.2	1
84	Morphing of soft tubes by anisotropic growth. <i>Acta Mechanica</i> , 0, , 1.	1.1	0