

# Kumbakonam R Rajagopal

## 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.

541  
papers

16,403  
citations

64  
h-index

107  
g-index

562  
ext. papers

17,983  
ext. citations

2.9  
avg, IF

7.19  
L-index

#	Paper	IF	Citations
541	Flow past a porous plate of non-Newtonian fluids with implicit shear stress shear rate relationships. <i>European Journal of Mechanics, B/Fluids</i> , <b>2022</b> , 92, 166-173	2.4	0
540	Implicit nonlinear elastic bodies with density dependent material moduli and its linearization. <i>International Journal of Solids and Structures</i> , <b>2022</b> , 234-235, 111255	3.1	2
539	Start-up shear flow of a shear-thinning fluid that approximates the response of viscoplastic fluids. <i>Applied Mathematics and Computation</i> , <b>2022</b> , 412, 126571	2.7	0
538	Experimental Investigation of the Anisotropic Mechanical Response of the Porcine Thoracic Aorta.. <i>Annals of Biomedical Engineering</i> , <b>2022</b> , 50, 452	4.7	2
537	Mixture model for thermo-chemo-mechanical processes in fluid-infused solids. <i>International Journal of Engineering Science</i> , <b>2022</b> , 174, 103576	5.7	0
536	Jeffery-Hamel flow of a shear-thinning fluid that mimics the reponse of viscoplastic materials. <i>International Journal of Non-Linear Mechanics</i> , <b>2022</b> , 104084	2.8	2
535	Channel flows of shear-thinning fluids that mimic the mechanical response of a Bingham fluid. <i>International Journal of Non-Linear Mechanics</i> , <b>2021</b> , 138, 103847	2.8	2
534	A note on the stability of flows of fluids whose symmetric part of the velocity gradient is a function of the stress. <i>Applications in Engineering Science</i> , <b>2021</b> , 8, 100072	0.4	
533	Stress concentration factors around a circular hole in two fiber reinforced materials under large deformations. <i>Mechanics of Materials</i> , <b>2021</b> , 163, 104089	3.3	1
532	Implicit Type Constitutive Relations for Elastic Solids and Their Use in the Development of Mathematical Models for Viscoelastic Fluids. <i>Fluids</i> , <b>2021</b> , 6, 131	1.6	2
531	A constitutive model for wet granular materials. <i>Particulate Science and Technology</i> , <b>2021</b> , 39, 903-910	2	0
530	Stress concentration due to the presence of a hole within the context of elastic bodies. <i>Material Design and Processing Communications</i> , <b>2021</b> , 3, e219	0.9	5
529	The circumferential shearing of a cylindrical annulus of viscoelastic solids described by implicit constitutive relations. <i>Acta Mechanica</i> , <b>2021</b> , 232, 2679	2.1	1
528	On an Implicit Model Linear in Both Stress and Strain to Describe the Response of Porous Solids. <i>Journal of Elasticity</i> , <b>2021</b> , 144, 107-118	1.5	2
527	On the instability, nonexistence and spatial behaviour of the one-dimensional response of a new class of elastic bodies. <i>IMA Journal of Applied Mathematics</i> , <b>2021</b> , 86, 565-576	1	
526	Computational corroboration of the flow of rock glaciers against borehole measurements. <i>International Journal of Non-Linear Mechanics</i> , <b>2021</b> , 132, 103710	2.8	
525	A benchmark problem to evaluate implementational issues for three-dimensional flows of incompressible fluids subject to slip boundary conditions. <i>Applications in Engineering Science</i> , <b>2021</b> , 6, 100038	0.4	1

524	Asymptotic beam theory for non-classical elastic materials. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 189, 105950	5.5	6
523	A study of the dissipation of energy in the helmet due to a blast on a helmet-skull-brain assembly. <i>Composite Structures</i> , <b>2021</b> , 257, 113124	5.3	0
522	A thermodynamic framework for additive manufacturing, using amorphous polymers, capable of predicting residual stress, warpage and shrinkage. <i>International Journal of Engineering Science</i> , <b>2021</b> , 159, 103412	5.7	9
521	On lower-dimensional models in lubrication, Part B: Derivation of a Reynolds type of equation for incompressible piezo-viscous fluids. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2021</b> , 235, 1703-1718	1.4	4
520	On lower-dimensional models in lubrication, Part A: Common misinterpretations and incorrect usage of the Reynolds equation. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2021</b> , 235, 1692-1702	1.4	3
519	A model for a solid undergoing rate-independent dissipative mechanical processes. <i>Mathematics and Mechanics of Solids</i> , <b>2021</b> , 26, 230-243	2.3	0
518	Unconditional finite amplitude stability of a fluid in a mechanically isolated vessel with spatially non-uniform wall temperature. <i>Continuum Mechanics and Thermodynamics</i> , <b>2021</b> , 33, 515-543	3.5	1
517	A two-constituent nonlinear viscoelastic model for asphalt mixtures. <i>Road Materials and Pavement Design</i> , <b>2021</b> , 22, 910-924	2.6	2
516	A class of transversely isotropic non-linear elastic bodies that is not Green elastic. <i>Journal of Engineering Mathematics</i> , <b>2021</b> , 127, 1	1.2	
515	Lagrange multiplier approach to unilateral indentation problems: Well-posedness and application to linearized viscoelasticity with non-invertible constitutive response. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2021</b> , 31, 649-674	3.5	1
514	An implicit constitutive relation for describing the small strain response of porous elastic solids whose material moduli are dependent on the density. <i>Mathematics and Mechanics of Solids</i> , <b>2021</b> , 26, 1138-1146	2.3	7
513	A new type of constitutive equation for nonlinear elastic bodies. Fitting with experimental data for rubber-like materials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2021</b> , 477, 20210330	2.4	4
512	The derivation of the FENE-P model within the context of a thermodynamic perspective for bodies with evolving natural configurations. <i>International Journal of Non-Linear Mechanics</i> , <b>2021</b> , 134, 103729	2.8	0
511	Finite element approximation of steady flows of colloidal solutions. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2021</b> , 55, 1963-2011	1.8	
510	Inflation of residually stressed Fung-type membrane models of arteries. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 122, 104699	4.1	0
509	The residually stressed unloaded state of arteries: Membrane and thin cylinder approximations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 122, 104521	4.1	1
508	A thermomechanical and photochemical description of the phase change process in roll-to-roll nanoimprinting lithography. <i>International Journal of Engineering Science</i> , <b>2021</b> , 169, 103564	5.7	0
507	Function Follows Form: Modeling Ventricular Assist Device-Mediated Blood Flow. <i>ASAIO Journal</i> , <b>2021</b> , 67, 734-736	3.6	

506	On the Classification of Incompressible Fluids and a Mathematical Analysis of the Equations That Govern Their Motion. <i>SIAM Journal on Mathematical Analysis</i> , <b>2020</b> , 52, 1232-1289	1.7	15
505	Segmental Variations in the Peel Characteristics of the Porcine Thoracic Aorta. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 1751-1767	4.7	3
504	Modeling Approaches and Some Physical Considerations Concerning Thermodynamics and the Theory of Mixtures Applied to Time-Dependent Behaviors in Heterogeneous Materials. <i>Experimental Mechanics</i> , <b>2020</b> , 60, 591-609	2.6	3
503	Chemo-mechanical coupling and material evolution in finitely deforming solids with advancing fronts of reactive fluids. <i>Acta Mechanica</i> , <b>2020</b> , 231, 1933-1961	2.1	4
502	Gibbs free energy based representation formula within the context of implicit constitutive relations for elastic solids. <i>International Journal of Non-Linear Mechanics</i> , <b>2020</b> , 121, 103433	2.8	12
501	The Boussinesq flat-punch indentation problem within the context of linearized viscoelasticity. <i>International Journal of Engineering Science</i> , <b>2020</b> , 151, 103272	5.7	7
500	A Model to Describe the Response of Arctic Sea Ice. <i>Springer INdAM Series</i> , <b>2020</b> , 163-178	0.4	
499	Mathematical Modeling of Rock Glacier Flow with Temperature Effects. <i>Springer INdAM Series</i> , <b>2020</b> , 149-161	0.4	
498	The Mechanics and Mathematics of Bodies Described by Implicit Constitutive Equations. <i>Mathematics for Industry</i> , <b>2020</b> , 49-65	0.1	
497	A Review of Implicit Constitutive Theories to Describe the Response of Elastic Bodies. <i>Solid Mechanics and Its Applications</i> , <b>2020</b> , 187-230	0.4	7
496	Modeling of the Aorta: Complexities and Inadequacies. <i>Aorta</i> , <b>2020</b> , 8, 91-97	0.9	8
495	Modeling deformation induced anisotropy of light-activated shape memory polymers. <i>International Journal of Non-Linear Mechanics</i> , <b>2020</b> , 120, 103376	2.8	3
494	Analysis of reclaimed asphalt blended binders using linear and nonlinear viscoelasticity frameworks. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2020</b> , 53, 1	3.4	0
493	Implicit constitutive relations for describing the response of visco-elastic bodies. <i>International Journal of Non-Linear Mechanics</i> , <b>2020</b> , 126, 103526	2.8	3
492	Implicit constitutive relations for visco-elastic solids: Part II. Non-homogeneous deformations. <i>International Journal of Non-Linear Mechanics</i> , <b>2020</b> , 126, 103560	2.8	2
491	Density-driven damage mechanics (D3-M) model for concrete I: mechanical damage. <i>International Journal of Pavement Engineering</i> , <b>2020</b> , 1-14	2.6	3
490	Density driven damage mechanics (D3-M) model for concrete II: fully coupled chemo-mechanical damage. <i>International Journal of Pavement Engineering</i> , <b>2020</b> , 1-11	2.6	3
489	Viscoelastic transitions exhibited by modified and unmodified bitumen. <i>International Journal of Pavement Engineering</i> , <b>2020</b> , 21, 766-780	2.6	3

488	Thin-Film Flow of an Inhomogeneous Fluid with Density-Dependent Viscosity. <i>Fluids</i> , <b>2019</b> , 4, 30	1.6	7
487	A thermodynamically consistent model for viscoelastic polymers undergoing microstructural changes. <i>International Journal of Engineering Science</i> , <b>2019</b> , 142, 106-124	5.7	12
486	Lubrication Approximation for Fluids with Shear-Dependent Viscosity. <i>Fluids</i> , <b>2019</b> , 4, 98	1.6	0
485	Motion of a finite composite cylindrical annulus comprised of nonlinear elastic solids subject to periodic shear. <i>International Journal of Non-Linear Mechanics</i> , <b>2019</b> , 113, 31-43	2.8	0
484	Some remarks and clarifications concerning the restrictions placed on thermodynamic processes. <i>International Journal of Engineering Science</i> , <b>2019</b> , 140, 26-34	5.7	7
483	Flow of a new class of non-Newtonian fluids in tubes of non-circular cross-sections. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2019</b> , 377, 20180069	3	3
482	Well-posedness of the problem of non-penetrating cracks in elastic bodies whose material moduli depend on the mean normal stress. <i>International Journal of Engineering Science</i> , <b>2019</b> , 136, 17-25	5.7	9
481	A decomposition of Laplace stretch with applications in inelasticity. <i>Acta Mechanica</i> , <b>2019</b> , 230, 3423-3429	1	12
480	The State of Stress and Strain Adjacent to Notches in a New Class of Nonlinear Elastic Bodies. <i>Journal of Elasticity</i> , <b>2019</b> , 135, 375-397	1.5	8
479	Inhomogeneous non-unidirectional deformations of an elastic wedge. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , <b>2019</b> , 72, 1-23	1	
478	A Review of Automatic Vehicle Following Systems. <i>Journal of the Indian Institute of Science</i> , <b>2019</b> , 99, 567-587	2.4	8
477	Crack problem within the context of implicitly constituted quasi-linear viscoelasticity. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2019</b> , 29, 355-372	3.5	8
476	Reversal of flow of a non-Newtonian fluid in an expanding channel. <i>International Journal of Non-Linear Mechanics</i> , <b>2018</b> , 101, 44-55	2.8	5
475	Lubrication approximation of flows of a special class of non-Newtonian fluids defined by rate type constitutive equations. <i>Applied Mathematical Modelling</i> , <b>2018</b> , 60, 508-525	4.5	2
474	A New Class of Models to Describe the Response of Electrorheological and Other Field Dependent Fluids. <i>Advanced Structured Materials</i> , <b>2018</b> , 655-673	0.6	2
473	An adaptive finite element method for the inequality-constrained Reynolds equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 336, 156-170	5.7	4
472	Initiation of damage in a class of polymeric materials embedded with multiple localized regions of lower density. <i>Mathematics and Mechanics of Solids</i> , <b>2018</b> , 23, 865-878	2.3	3
471	On the states of stress and strain adjacent to a crack in a strain-limiting viscoelastic body. <i>Mathematics and Mechanics of Solids</i> , <b>2018</b> , 23, 433-444	2.3	14

470	Bodies described by non-monotonic strain-stress constitutive equations containing a crack subject to anti-plane shear stress. <i>International Journal of Mechanical Sciences</i> , <b>2018</b> , 149, 494-499	5.5	4
469	A nonlinear model for describing the mechanical behaviour of rock. <i>Acta Mechanica</i> , <b>2018</b> , 229, 251-272	2.1	14
468	Numerical simulations of an incompressible piezoviscous fluid flowing in a plane slider bearing. <i>Meccanica</i> , <b>2018</b> , 53, 209-228	2.1	2
467	Modelling residual stresses in elastic bodies described by implicit constitutive relations. <i>International Journal of Non-Linear Mechanics</i> , <b>2018</b> , 105, 113-129	2.8	1
466	Simulation of inextensible elasto-plastic beams based on an implicit rate type model. <i>International Journal of Non-Linear Mechanics</i> , <b>2018</b> , 99, 165-172	2.8	6
465	On viscoelastic beams undergoing cyclic loading: Determining the onset of structural instabilities. <i>International Journal of Non-Linear Mechanics</i> , <b>2018</b> , 99, 40-50	2.8	6
464	A note on the linearization of the constitutive relations of non-linear elastic bodies. <i>Mechanics Research Communications</i> , <b>2018</b> , 93, 132-137	2.2	21
463	DETERMINING MATERIAL PROPERTIES OF NATURAL RUBBER USING FEWER MATERIAL MODULI IN VIRTUE OF A NOVEL CONSTITUTIVE APPROACH FOR ELASTIC BODIES. <i>Rubber Chemistry and Technology</i> , <b>2018</b> , 91, 375-389	1.7	16
462	Derivation of the Variants of the Burgers Model Using a Thermodynamic Approach and Appealing to the Concept of Evolving Natural Configurations. <i>Fluids</i> , <b>2018</b> , 3, 69	1.6	13
461	Chemo-mechanical coupling in curing and material-interphase evolution in multi-constituent materials. <i>Acta Mechanica</i> , <b>2018</b> , 229, 3393-3414	2.1	4
460	A damage initiation criterion for a class of viscoelastic solids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2018</b> , 474, 20180064	2.4	2
459	Mechanical behaviour of asphalt binders at high temperatures and specification for rutting. <i>International Journal of Pavement Engineering</i> , <b>2017</b> , 18, 916-927	2.6	7
458	Nonlinear elasticity with limiting small strain for cracks subject to non-penetration. <i>Mathematics and Mechanics of Solids</i> , <b>2017</b> , 22, 1334-1346	2.3	26
457	Modeling the response of light-activated shape memory polymers. <i>Mathematics and Mechanics of Solids</i> , <b>2017</b> , 22, 1116-1143	2.3	10
456	Determination of pressure data from velocity data with a view towards its application in cardiovascular mechanics. Part 2: A study of aortic valve stenosis. <i>International Journal of Engineering Science</i> , <b>2017</b> , 113, 37-50	5.7	1
455	Quasi-linear viscoelastic modeling of light-activated shape memory polymers. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2017</b> , 28, 2500-2515	2.3	10
454	Determination of pressure data from velocity data with a view towards its application in cardiovascular mechanics. Part 2. A study of aortic valve stenosis. <i>International Journal of Engineering Science</i> , <b>2017</b> , 114, 1-15	5.7	11
453	Wave patterns in a nonclassic nonlinearly-elastic bar under Riemann data. <i>International Journal of Non-Linear Mechanics</i> , <b>2017</b> , 91, 76-85	2.8	6



452	Contacting crack faces within the context of bodies exhibiting limiting strains. <i>JSIAM Letters</i> , <b>2017</b> , 9, 61-64	0.2	5
451	Implicit equations for thermoelastic bodies. <i>International Journal of Non-Linear Mechanics</i> , <b>2017</b> , 92, 144-152	1.8	8
450	A thermodynamically consistent constitutive equation for describing the response exhibited by several alloys and the study of a meaningful physical problem. <i>International Journal of Solids and Structures</i> , <b>2017</b> , 108, 1-10	3.1	19
449	Stabilized mixed three-field formulation for a generalized incompressible Oldroyd-B model. <i>International Journal for Numerical Methods in Fluids</i> , <b>2017</b> , 83, 704-734	1.9	11
448	A three dimensional finite deformation viscoelastic model for a layered polymeric material subject to blast. <i>Composite Structures</i> , <b>2017</b> , 159, 382-389	5.3	5
447	Representations for implicit constitutive relations describing non-dissipative response of isotropic materials. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , <b>2017</b> , 68, 1	1.6	18
446	Correction to On a new class of electroelastic bodies. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2017</b> , 473,	2.4	78
445	A Short Review of Advances in the Modelling of Blood Rheology and Clot Formation. <i>Fluids</i> , <b>2017</b> , 2, 35	1.6	16
444	Two boundary value problems involving an inhomogeneous viscoelastic solid. <i>Discrete and Continuous Dynamical Systems - Series S</i> , <b>2017</b> , 10, 1351-1373	2.8	
443	Finite element modelling of field compaction of hot mix asphalt. Part I: Theory. <i>International Journal of Pavement Engineering</i> , <b>2016</b> , 17, 13-23	2.6	16
442	Finite element modelling of field compaction of hot mix asphalt. Part II: Applications. <i>International Journal of Pavement Engineering</i> , <b>2016</b> , 17, 24-38	2.6	16
441	On a possible methodology for identifying the initiation of damage of a class of polymeric materials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2016</b> , 472, 20160231	2.4	6
440	On the lubrication approximation for a class of viscoelastic fluids. <i>International Journal of Non-Linear Mechanics</i> , <b>2016</b> , 87, 30-37	2.8	2
439	A nonlinear viscoelastic constitutive model for polymeric solids based on multiple natural configuration theory. <i>International Journal of Solids and Structures</i> , <b>2016</b> , 100-101, 95-110	3.1	20
438	Numerical and approximate analytical solutions for cylindrical and spherical annuli for a new class of elastic materials. <i>Archive of Applied Mechanics</i> , <b>2016</b> , 86, 1815-1826	2.2	4
437	A fully coupled model for diffusion-induced deformation in polymers. <i>Acta Mechanica</i> , <b>2016</b> , 227, 837-856	1.1	2
436	On the anti-plane state of stress near pointed or sharply radiused notches in strain limiting elastic materials: closed form solution and implications for fracture assessments. <i>International Journal of Fracture</i> , <b>2016</b> , 199, 169-184	2.3	10
435	Large deformations of a new class of incompressible elastic bodies. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , <b>2016</b> , 67, 1	1.6	5

434	Modelling the nonlinear viscoelastic response of asphalt binders. <i>International Journal of Pavement Engineering</i> , <b>2016</b> , 17, 123-132	2.6	9
433	On the consequences of the constraint of incompressibility with regard to a new class of constitutive relations for elastic bodies: small displacement gradient approximation. <i>Continuum Mechanics and Thermodynamics</i> , <b>2016</b> , 28, 293-303	3.5	10
432	On the nonlinear viscoelastic deformations of composites with prestressed inclusions. <i>Composite Structures</i> , <b>2016</b> , 149, 279-291	5.3	6
431	Determination of pressure data from velocity data with a view toward its application in cardiovascular mechanics. Part 1. Theoretical considerations. <i>International Journal of Engineering Science</i> , <b>2016</b> , 105, 108-127	5.7	28
430	A thermodynamically compatible model for describing asphalt binders: solutions of problems. <i>International Journal of Pavement Engineering</i> , <b>2016</b> , 17, 550-564	2.6	9
429	On the response of physical systems governed by non-linear ordinary differential equations to step input. <i>International Journal of Non-Linear Mechanics</i> , <b>2016</b> , 81, 207-221	2.8	7
428	A promising approach for modeling biological fibers. <i>Acta Mechanica</i> , <b>2016</b> , 227, 1609-1619	2.1	27
427	On stress-based piecewise elasticity for limited strain extensibility materials. <i>International Journal of Non-Linear Mechanics</i> , <b>2016</b> , 81, 303-309	2.8	3
426	On the flow of fluids through inhomogeneous porous media due to high pressure gradients. <i>International Journal of Non-Linear Mechanics</i> , <b>2016</b> , 78, 112-120	2.8	7
425	A Novel Approach to the Description of Constitutive Relations. <i>Frontiers in Materials</i> , <b>2016</b> , 3,	4	15
424	On the Flows of Fluids Defined through Implicit Constitutive Relations between the Stress and the Symmetric Part of the Velocity Gradient. <i>Fluids</i> , <b>2016</b> , 1, 5	1.6	1
423	An implicit three-dimensional model for describing the inelastic response of solids undergoing finite deformation. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , <b>2016</b> , 67, 1	1.6	18
422	A viscoelastic model for describing the response of biological fibers. <i>Acta Mechanica</i> , <b>2016</b> , 227, 3367-3380	2.1	3
421	Deformations of infinite slabs of non-linear viscoelastic solids containing an elliptic hole. <i>Meccanica</i> , <b>2016</b> , 51, 3067-3080	2.1	2
420	On the stability and uniqueness of the flow of a fluid through a porous medium. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , <b>2016</b> , 67, 1	1.6	3
419	Response of a class of mechanical oscillators described by a novel system of differential-algebraic equations. <i>Applications of Mathematics</i> , <b>2016</b> , 61, 79-102		2
418	On power-law fluids with the power-law index proportional to the pressure. <i>Applied Mathematics Letters</i> , <b>2016</b> , 62, 118-123	3.5	3
417	Nonlinear Viscoelastic Model for Describing the Response of Asphalt Binders within the Context of a Gibbs-PotentialBased Thermodynamic Framework. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2015</b> , 141, 04014116	2.4	12



4 <sup>16</sup>	Solutions of some boundary value problems for a new class of elastic bodies. Comparison with predictions of the classical theory of linearized elasticity: Part II. A problem with spherical symmetry. <i>Acta Mechanica</i> , <b>2015</b> , 226, 1807-1813	2.1	12
4 <sup>15</sup>	Wave propagation due to impact through layered polymer composites: Part 2 [Planar problems. <i>Composite Structures</i> , <b>2015</b> , 131, 356-365	5.3	2
4 <sup>14</sup>	Exact, approximate and numerical solutions for a variant of Stokes' first problem for a new class of non-linear fluids. <i>International Journal of Non-Linear Mechanics</i> , <b>2015</b> , 77, 41-50	2.8	6
4 <sup>13</sup>	Vibrations of a lumped parameter mass-spring-dashpot system wherein the spring is described by a non-invertible elongation-force constitutive function. <i>International Journal of Non-Linear Mechanics</i> , <b>2015</b> , 76, 154-163	2.8	2
4 <sup>12</sup>	A note on the classification of anisotropy of bodies defined by implicit constitutive relations. <i>Mechanics Research Communications</i> , <b>2015</b> , 64, 38-41	2.2	17
4 <sup>11</sup>	A note on some new classes of constitutive relations for elastic bodies. <i>IMA Journal of Applied Mathematics</i> , <b>2015</b> , 80, 1287-1299	1	16
4 <sup>10</sup>	Inelastic response of solids described by implicit constitutive relations with nonlinear small strain elastic response. <i>International Journal of Plasticity</i> , <b>2015</b> , 71, 1-9	7.6	23
4 <sup>09</sup>	Solutions of some boundary value problems for a new class of elastic bodies undergoing small strains. Comparison with the predictions of the classical theory of linearized elasticity: Part I. Problems with cylindrical symmetry. <i>Acta Mechanica</i> , <b>2015</b> , 226, 1815-1838	2.1	21
4 <sup>08</sup>	A constitutive theory for multi-functional fiber reinforced composites. <i>Acta Mechanica</i> , <b>2015</b> , 226, 2671-2679		1
4 <sup>07</sup>	On a variant of the Maxwell and Oldroyd-B models within the context of a thermodynamic basis. <i>International Journal of Non-Linear Mechanics</i> , <b>2015</b> , 76, 42-47	2.8	28
4 <sup>06</sup>	Nonlinear Reynolds equation for hydrodynamic lubrication. <i>Applied Mathematical Modelling</i> , <b>2015</b> , 39, 5299-5309	4.5	24
4 <sup>05</sup>	Implicit constitutive relations for nonlinear magnetoelastic bodies. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2015</b> , 471, 20140959	2.4	18
4 <sup>04</sup>	On the approximation of isochoric motions of fluids under different flow conditions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2015</b> , 471, 20150159	2.4	7
4 <sup>03</sup>	A thermodynamically compatible model for describing the response of asphalt binders. <i>International Journal of Pavement Engineering</i> , <b>2015</b> , 16, 297-314	2.6	15
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