Sushil Tomar

List of Publications by Year
in descending order

70 papers	1,216 citations	430874 18 h-index	454955 30 g-index
72 all docs	72 docs citations	72 times ranked	277 citing authors

#	Article	IF	Citations
1	Waves in Nonlocal Elastic Solid with Voids. Journal of Elasticity, 2017, 128, 85-114.	1.9	88
2	Plane waves in nonlocal thermoelastic solid with voids. Journal of Thermal Stresses, 2019, 42, 580-606.	2.0	71
3	Plane waves in thermo-elastic material with voids. Mechanics of Materials, 2007, 39, 932-940.	3.2	60
4	Rayleigh-type waves in nonlocal micropolar solid half-space. Ultrasonics, 2017, 73, 162-168.	3.9	59
5	Reflection and transmission of elastic waves at an elastic/porous solid saturated by two immiscible fluids. International Journal of Solids and Structures, 2006, 43, 1991-2013.	2.7	51
6	Wave propagation in nonlocal microstretch solid. Applied Mathematical Modelling, 2016, 40, 5858-5875.	4.2	49
7	Reflection and refraction of longitudinal wave at an interface between two micropolar elastic solids in welded contact. Journal of the Acoustical Society of America, 1995, 97, 822-830.	1.1	48
8	SH-waves at a corrugated interface between a dry sandy half-space and an anisotropic elastic half-space. Acta Mechanica, 2007, 190, 1-28.	2.1	48
9	Wave Propagation in a Micropolar Elastic Plate with Voids. JVC/Journal of Vibration and Control, 2005, 11, 849-863.	2.6	40
10	Reflection and refraction of a longitudinal microrotational wave at an interface between two micropolar elastic solids in welded contact. International Journal of Engineering Science, 1992, 30, 1637-1646.	5.0	39
11	Reflection and transmission of waves from a plane interface between two microstretch solid half-spaces. International Journal of Engineering Science, 2005, 43, 139-169.	5.0	38
12	Rayleigh-type wave in a nonlocal elastic solid with voids. European Journal of Mechanics, A/Solids, 2018, 71, 134-150.	3.7	38
13	Waves at interface of dissimilar nonlocal micropolar elastic half-spaces. Mechanics of Advanced Materials and Structures, 2019, 26, 825-833.	2.6	33
14	Reflection and refraction of coupled transverse and micro-rotational waves at an interface between two different micropolar elastic media in welded contact. International Journal of Engineering Science, 1995, 33, 485-496.	5.0	28
15	Love waves in a nonlocal elastic media with voids. JVC/Journal of Vibration and Control, 2019, 25, 1470-1483.	2.6	25
16	Time harmonic waves in a thermo-viscoelastic material with voids. JVC/Journal of Vibration and Control, 2014, 20, 1119-1136.	2.6	24
17	Reflection of plane longitudinal waves from the stress-free boundary of a nonlocal, micropolar solid half-space. Journal of Mechanics of Materials and Structures, 2013, 8, 95-107.	0.6	23
18	Reflection and transmission of transverse waves at a plane interface between two different porous elastic solid half-spaces. Applied Mathematics and Computation, 2006, 176, 364-378.	2.2	21

#	ARTICLE	IF	CITATIONS
19	Elastic waves in an electro-microelastic solid. International Journal of Solids and Structures, 2008, 45, 276-302.	2.7	19
20	Transmission of longitudinal waves through a plane interface between two dissimilar porous elastic solid half-spaces. Applied Mathematics and Computation, 2005, 169, 671-688.	2.2	18
21	Longitudinal waves at a micropolar fluid/solid interface. International Journal of Solids and Structures, 2008, 45, 225-244.	2.7	18
22	Longitudinal wave response of a chiral slab interposed between micropolar solid half-spaces. International Journal of Solids and Structures, 2009, 46, 135-150.	2.7	18
23	Plane harmonic waves in a thermoelastic solid with double porosity. Mathematics and Mechanics of Solids, 2020, 25, 869-886.	2.4	18
24	Reflection/refraction of SH-waves at a corrugated interface between two different anisotropic and vertically heterogeneous elastic solid half-spaces. ANZIAM Journal, 2003, 44, 447-460.	0.2	17
25	Plane waves in a rotating micropolar porous elastic solid. Journal of Applied Physics, 2007, 102, 074906.	2.5	16
26	Elastic Waves in Swelling Porous Media. Transport in Porous Media, 2013, 100, 39-68.	2.6	15
27	Two-dimensional wave propagation in a rotating elastic solid with voids. Journal of Sound and Vibration, 2014, 333, 1945-1952.	3.9	15
28	Plane waves in nonlocal micropolar thermoelastic material with voids. Journal of Thermal Stresses, 2020, 43, 1355-1378.	2.0	15
29	Plane SH-waves at a corrugated interface between two dissimilar perfectly conducting self-reinforced elastic half-spaces. International Journal for Numerical and Analytical Methods in Geomechanics, 2006, 30, 455-487.	3.3	14
30	Elastic waves along a cylindrical borehole in a poroelastic medium saturated by two immiscible fluids. Journal of Earth System Science, 2007, 116, 225-234.	1.3	14
31	Reflection and refraction ofSH-waves at a corrugated interface between two monoclinic elastic half-spaces. International Journal for Numerical and Analytical Methods in Geomechanics, 2004, 28, 1543-1575.	3.3	13
32	Shear waves at a corrugated interface between anisotropic elastic and visco-elastic solid half-spaces. Journal of Seismology, 2007, 11, 235-258.	1.3	13
33	Rayleigh-Type Surface Waves in a Swelling Porous Half-Space. Transport in Porous Media, 2016, 113, 91-109.	2.6	12
34	Effect of fluid viscosity on wave propagation in a cylindrical bore in micropolar elastic medium. Sadhana - Academy Proceedings in Engineering Sciences, 2000, 25, 439-452.	1.3	11
35	Modified families of multi-point iterative methods for solving nonlinear equations. Numerical Algorithms, 2007, 44, 381-389.	1.9	10
36	Reflection/Refraction of a Dilatational Wave at a Plane Interface Between Uniform Elastic and Swelling Porous Half-Spaces. Transport in Porous Media, 2015, 109, 609-632.	2.6	10

#	ARTICLE	IF	CITATIONS
37	Reflection and Transmission of Plane Dilatational Wave at a Plane Interface Between an Elastic Solid Half-Space and a Thermo-viscoelastic Solid Half-Space with Voids. Journal of Elasticity, 2015, 121, 69-88.	1.9	10
38	Geometrically Constructed Families of Newton's Method for Unconstrained Optimization and Nonlinear Equations. International Journal of Mathematics and Mathematical Sciences, 2011, 2011, 1-9.	0.7	9
39	Elastic Waves at Porous/Porous Elastic Half-Spaces Saturated by Two Immiscible Fluids. Journal of Porous Media, 2007, 10, 751-768.	1.9	9
40	Plane Waves in Thermo-Viscoelastic Material with Voids Under Different Theories of Thermoelasticity. International Journal of Applied Mechanics and Engineering, 2019, 24, 691-708.	0.7	9
41	2-D deformation analysis of a half-space due to a long dip-slip fault at finite depth. Journal of Earth System Science, 2003, 112, 587-596.	1.3	8
42	Elastic waves at a corrugated interface between two dissimilar fibre-reinforced elastic half-spaces. International Journal for Numerical and Analytical Methods in Geomechanics, 2007, 31, 1085-1116.	3.3	8
43	The effect of inertial coupling on seismic reflection amplitudes. Geophysical Prospecting, 2008, 56, 643-654.	1.9	8
44	Dilatational waves at a microstretch solid/fluid interface. JVC/Journal of Vibration and Control, 2017, 23, 3448-3467.	2.6	8
45	Reflection and transmission of elastic waves at viscous liquid/micropolar elastic solid interface. International Journal of Mathematics and Mathematical Sciences, 2001, 26, 685-694.	0.7	7
46	Transmission of longitudinal wave at a plane interface between micropolar elastic and chiral solid half-spaces: Incidence from micropolar half-space. Journal of Sound and Vibration, 2008, 311, 973-990.	3.9	7
47	Seismic Reflection from an Interface Between an Elastic Solid and a Fractured Porous Medium with Partial Saturation. Transport in Porous Media, 2010, 85, 375-396.	2.6	7
48	Transmission of longitudinal wave through micro-porous elastic solid interface. International Journal of Engineering, Science and Technology, 2011, 3, .	0.6	7
49	Surface waves in layered thermoelastic medium with double porosity structure: Rayleigh and Stoneley waves. Mechanics of Advanced Materials and Structures, 2022, 29, 2680-2705.	2.6	7
50	Elastic waves at the plane interface of swelling porous half-space and viscoelastic half-space with voids. International Journal of Mechanical Sciences, 2020, 188, 105942.	6.7	6
51	Reflection of coupled waves from the flat boundary surface of a nonlocal micropolar thermoelastic half-space containing voids. Journal of Thermal Stresses, 2021, 44, 1191-1220.	2.0	6
52	Body Waves in Composite Solid Matrix Containing Two Immiscible Fluids. Transport in Porous Media, 2015, 108, 531-554.	2.6	5
53	On the dispersion of waves for the linear thermoelastic relaxed micromorphic model. Journal of Thermal Stresses, 2020, 43, 3-20.	2.0	5
54	Waves in nonlocal elastic material with double porosity. Archive of Applied Mechanics, 2021, 91, 4797-4815.	2.2	5

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55	Lamb waves in nonlocal elastic plate with voids. Journal of Mechanics of Materials and Structures, 2021, 16, 389-405.	0.6	5
56	Exponentially fitted variants of Newton's method with quadratic and cubic convergence. International Journal of Computer Mathematics, 2009, 86, 1603-1611.	1.8	4
57	Propagating waves in elastic material with voids subjected to electro-magnetic interactions. Applied Mathematical Modelling, 2020, 78, 685-705.	4.2	4
58	EHD convection in dielectric micropolar fluid layer. Journal of Electrostatics, 2015, 78, 60-67.	1.9	3
59	A mathematical model for wave propagation in a composite solid matrix containing two immiscible fluids. Acta Mechanica, 2016, 227, 1453-1467.	2.1	3
60	Wave propagation in elastic–plastic material with voids. Journal of Applied Physics, 2020, 127, 054901.	2.5	3
61	REFLECTION AND TRANSMISSION OF INHOMOGENEOUS WAVES AT THE PLANE INTERFACE BETWEEN TWO DISSIMILAR SWELLING POROUS HALF-SPACES. Special Topics and Reviews in Porous Media, 2015, 6, 51-69.	1.1	3
62	Plane dilatational and shear waves in a uniformly rotating thermo-viscoelastic material with voids. Mechanics of Advanced Materials and Structures, 2022, 29, 4779-4799.	2.6	2
63	RAYLEIGH WAVE IN A THERMO-VISCOELASTIC MATERIAL WITH VOIDS. Special Topics and Reviews in Porous Media, 2015, 6, 283-296.	1.1	2
64	Exponentially fitted variants of Euler's method for ODEs. International Journal of Mathematical Education in Science and Technology, 2008, 39, 1112-1116.	1.4	1
65	On a model simulating lack of hydraulic connection between a man-made reservoir and the volume of poroelastic rock hosting the focus of a post-impoundment earthquake. Journal of Earth System Science, 2016, 125, 1543-1555.	1.3	1
66	Plane waves in anisotropic elastic–plastic material with voids. JVC/Journal of Vibration and Control, 2020, , 107754632097771.	2.6	1
67	Uniqueness, continuous dependence and reciprocity theorems in thermoelastic relaxed micromorphic continuum. Journal of Thermal Stresses, 2021, 44, 715-730.	2.0	1
68	Rayleigh-like waves in multilayered elastic media containing voids: Use of the Haskell matrix method. JVC/Journal of Vibration and Control, 0, , 107754632110726.	2.6	1
69	An integral-free expression for short-term changes in fault stability due to pore pressure induced when a point load is placed on the pervious boundary of a porous elastic half space containing a fault. Journal of Earth System Science, 2014, 123, 1729-1738.	1.3	0
70	Lamb waves in elastic–plastic plate containing voids. IMA Journal of Applied Mathematics, 0, , .	1.6	0