

Sansit Patnaik

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

559
citations

759055

12
h-index

642610

23
g-index

25
all docs

25
docs citations

25
times ranked

285
citing authors

#	ARTICLE	IF	CITATIONS
1	On the fractional homogenization of one-dimensional elastic metamaterials with viscoelastic foundation. <i>Archive of Applied Mechanics</i> , 2023, 93, 261-286.	1.2	5
2	Variable-order approach to nonlocal elasticity: theoretical formulation, order identification via deep learning, and applications. <i>Computational Mechanics</i> , 2022, 69, 267-298.	2.2	16
3	Displacement-driven approach to nonlocal elasticity. <i>European Journal of Mechanics, A/Solids</i> , 2022, 92, 104434.	2.1	15
4	Fractional-Order Shell Theory: Formulation and Application to the Analysis of Nonlocal Cylindrical Panels. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2022, 89, .	1.1	4
5	Multiscale nonlocal elasticity: A distributed order fractional formulation. <i>International Journal of Mechanical Sciences</i> , 2022, 226, 107381.	3.6	11
6	On the role of the microstructure in the deformation of porous solids. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	9
7	Towards a unified approach to nonlocal elasticity via fractional-order mechanics. <i>International Journal of Mechanical Sciences</i> , 2021, 189, 105992.	3.6	35
8	Fractional-Order models for the static and dynamic analysis of nonlocal plates. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 95, 105601.	1.7	13
9	Applications of Distributed-Order Fractional Operators: A Review. <i>Entropy</i> , 2021, 23, 110.	1.1	45
10	Variable-order fracture mechanics and its application to dynamic fracture. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	12
11	Analysis of the Postbuckling Response of Nonlocal Plates Via Fractional-Order Continuum Theory. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	1.1	4
12	Nonlinear thermoelastic fractional-order model of nonlocal plates: Application to postbuckling and bending response. <i>Thin-Walled Structures</i> , 2021, 164, 107809.	2.7	8
13	Thermodynamics of fractional-order nonlocal continua and its application to the thermoelastic response of beams. <i>European Journal of Mechanics, A/Solids</i> , 2021, 88, 104238.	2.1	15
14	Fractional-order structural stability: Formulation and application to the critical load of nonlocal slender structures. <i>International Journal of Mechanical Sciences</i> , 2021, 201, 106443.	3.6	6
15	Nonlocal elastic metasurfaces: Enabling broadband wave control via intentional nonlocality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26099-26108.	3.3	56
16	A generalized fractional-order elastodynamic theory for non-local attenuating media. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200200.	1.0	25
17	Geometrically nonlinear response of a fractional-order nonlocal model of elasticity. <i>International Journal of Non-Linear Mechanics</i> , 2020, 125, 103529.	1.4	29
18	Variable-order particle dynamics: formulation and application to the simulation of edge dislocations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190290.	1.6	13

#	ARTICLE	IF	CITATIONS
19	A Ritz-based finite element method for a fractional-order boundary value problem of nonlocal elasticity. <i>International Journal of Solids and Structures</i> , 2020, 202, 398-417.	1.3	41
20	Applications of variable-order fractional operators: a review. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190498.	1.0	129
21	Application of variable- and distributed-order fractional operators to the dynamic analysis of nonlinear oscillators. <i>Nonlinear Dynamics</i> , 2020, 100, 561-580.	2.7	33
22	Geometrically nonlinear analysis of nonlocal plates using fractional calculus. <i>International Journal of Mechanical Sciences</i> , 2020, 179, 105710.	3.6	24
23	Modeling Contacts and Hysteretic Behavior in Discrete Systems Via Variable-Order Fractional Operators. <i>Journal of Computational and Nonlinear Dynamics</i> , 2020, 15, .	0.7	6
24	Modeling Nonlinear Oscillators via Variable-Order Fractional Operators. , 2019, , .		2
25	Fractional order models for the homogenization and wave propagation analysis in periodic elastic beams. <i>Meccanica</i> , 0, , 1.	1.2	3