

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	Applications of variable-order fractional operators: a review. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190498.	1.0	129
2	Nonlocal elastic metasurfaces: Enabling broadband wave control via intentional nonlocality. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26099-26108.	3.3	56
3	Applications of Distributed-Order Fractional Operators: A Review. Entropy, 2021, 23, 110.	1.1	45
4	A Ritz-based finite element method for a fractional-order boundary value problem of nonlocal elasticity. International Journal of Solids and Structures, 2020, 202, 398-417.	1.3	41
5	Towards a unified approach to nonlocal elasticity via fractional-order mechanics. International Journal of Mechanical Sciences, 2021, 189, 105992.	3.6	35
6	Application of variable- and distributed-order fractional operators to the dynamic analysis of nonlinear oscillators. Nonlinear Dynamics, 2020, 100, 561-580.	2.7	33
7	Geometrically nonlinear response of a fractional-order nonlocal model of elasticity. International Journal of Non-Linear Mechanics, 2020, 125, 103529.	1.4	29
8	A generalized fractional-order elastodynamic theory for non-local attenuating media. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200200.	1.0	25
9	Geometrically nonlinear analysis of nonlocal plates using fractional calculus. International Journal of Mechanical Sciences, 2020, 179, 105710.	3.6	24
10	Variable-order approach to nonlocal elasticity: theoretical formulation, order identification via deep learning, and applications. Computational Mechanics, 2022, 69, 267-298.	2.2	16
11	Thermodynamics of fractional-order nonlocal continua and its application to the thermoelastic response of beams. European Journal of Mechanics, A/Solids, 2021, 88, 104238.	2.1	15
12	Displacement-driven approach to nonlocal elasticity. European Journal of Mechanics, A/Solids, 2022, 92, 104434.	2.1	15
13	Variable-order particle dynamics: formulation and application to the simulation of edge dislocations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190290.	1.6	13
14	Fractional-Order models for the static and dynamic analysis of nonlocal plates. Communications in Nonlinear Science and Numerical Simulation, 2021, 95, 105601.	1.7	13
15	Variable-order fracture mechanics and its application to dynamic fracture. Npj Computational Materials, 2021, 7, .	3.5	12
16	Multiscale nonlocal elasticity: A distributed order fractional formulation. International Journal of Mechanical Sciences, 2022, 226, 107381.	3.6	11
17	On the role of the microstructure in the deformation of porous solids. Npj Computational Materials, 2022, 8, .	3.5	9
18	Nonlinear thermoelastic fractional-order model of nonlocal plates: Application to postbuckling and bending response. Thin-Walled Structures, 2021, 164, 107809.	2.7	8

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	Fractional order models for the homogenization and wave propagation analysis in periodic elastic beams. <i>Meccanica</i> , 0, , 1.	1.2	3
25	Modeling Nonlinear Oscillators via Variable-Order Fractional Operators. , 2019, , .		2