

Konstantinos Agathos

List of Publications by Year in descending order

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all docs

18
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18
times ranked

277
citing authors

#	ARTICLE	IF	CITATIONS
1	A well- ϵ -conditioned and optimally convergent XFEM for 3D linear elastic fracture. International Journal for Numerical Methods in Engineering, 2016, 105, 643-677.	1.5	72
2	Stable 3D extended finite elements with higher order enrichment for accurate non planar fracture. Computer Methods in Applied Mechanics and Engineering, 2016, 306, 19-46.	3.4	69
3	Improving the conditioning of XFEM/GFEM for fracture mechanics problems through enrichment quasi-orthogonalization. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 1051-1073.	3.4	68
4	Stable 3D XFEM/vector level sets for non-planar 3D crack propagation and comparison of enrichment schemes. International Journal for Numerical Methods in Engineering, 2018, 113, 252-276.	1.5	61
5	Multiple crack detection in 3D using a stable XFEM and global optimization. Computational Mechanics, 2018, 62, 835-852.	2.2	54
6	Discrete and Phase Field Methods for Linear Elastic Fracture Mechanics: A Comparative Study and State-of-the-Art Review. Applied Sciences (Switzerland), 2019, 9, 2436.	1.3	43
7	A unified enrichment approach addressing blending and conditioning issues in enriched finite elements. Computer Methods in Applied Mechanics and Engineering, 2019, 349, 673-700.	3.4	32
8	Taylor-Series Expansion Based Numerical Methods: A Primer, Performance Benchmarking and New Approaches for Problems with Non-smooth Solutions. Archives of Computational Methods in Engineering, 2020, 27, 1465-1513.	6.0	20
9	A local basis approximation approach for nonlinear parametric model order reduction. Journal of Sound and Vibration, 2021, 502, 116055.	2.1	16
10	Parametrized reduced order modeling for cracked solids. International Journal for Numerical Methods in Engineering, 2020, 121, 4537-4565.	1.5	15
11	Parametric reduced order models for output-only vibration-based crack detection in shell structures. Mechanical Systems and Signal Processing, 2022, 162, 108051.	4.4	15
12	Crack detection in Mindlin-Reissner plates under dynamic loads based on fusion of data and models. Computers and Structures, 2021, 246, 106475.	2.4	11
13	Moment fitted cut spectral elements for explicit analysis of guided wave propagation. Computer Methods in Applied Mechanics and Engineering, 2022, 398, 115140.	3.4	9
14	Well Conditioned Extended Finite Elements and Vector Level Sets for Three-Dimensional Crack Propagation. Lecture Notes in Computational Science and Engineering, 2017, , 307-329.	0.1	7
15	An adapted deflated conjugate gradient solver for robust extended/generalised finite element solutions of large scale, 3D crack propagation problems. Computer Methods in Applied Mechanics and Engineering, 2022, 395, 114937.	3.4	6
16	On the Coupling of Reduced Order Modeling with Substructuring of Structural Systems with Component Nonlinearities. Conference Proceedings of the Society for Experimental Mechanics, 2022, , 35-43.	0.3	3
17	Parametric Model Order Reduction for Localized Nonlinear Feature Inclusion. , 2022, , 373-383.		3
18	3D Crack Detection Using an XFEM Variant and Global Optimization Algorithms. , 0, , .		2