Adnan Kefal

List of Publications by Year
in descending order

48 papers	1,338 citations	394286 19 h-index	360920 35 g-index
51 all docs	51 docs citations	51 times ranked	406 citing authors

#	Article	IF	Citations
1	Damage growth and failure detection in hybrid fiber composites using experimental in-situ optical strain measurements and smoothing element analysis. International Journal of Damage Mechanics, 2022, 31, 479-507.	2.4	3
2	A generalized hybrid smoothed particle hydrodynamicsâ€"peridynamics algorithm with a novel Lagrangian mapping for solution and failure analysis of fluidâ€"structure interaction problems. Computer Methods in Applied Mechanics and Engineering, 2022, 389, 114370.	3.4	23
3	Coupling of peridynamics and inverse finite element method for shape sensing and crack propagation monitoring of plate structures. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114520.	3.4	21
4	Experimental and numerical investigation on large deformation reconstruction of thin laminated composite structures using inverse finite element method. Thin-Walled Structures, 2022, 178, 109485.	2.7	10
5	Peridynamic modeling of toughening enhancement in unidirectional fiber-reinforced composites with micro-cracks. Composite Structures, 2022, 297, 115950.	3.1	7
6	Multiscale structural analysis of thick sandwich structures using parametric HFGMC micromechanics and isogeometric plate formulation based on refined zigzag theory. Composite Structures, 2022, 297, 115988.	3.1	7
7	Multi-material topology optimization of structures with discontinuities using Peridynamics. Composite Structures, 2021, 258, 113345.	3.1	21
8	An experimental implementation of inverse finite element method for real-time shape and strain sensing of composite and sandwich structures. Composite Structures, 2021, 258, 113431.	3.1	40
9	A smoothed iFEM approach for efficient shape-sensing applications: Numerical and experimental validation on composite structures. Mechanical Systems and Signal Processing, 2021, 152, 107486.	4.4	66
10	Isogeometric static analysis of laminated plates with curvilinear fibers based on Refined Zigzag Theory. Composite Structures, 2021, 256, 113097.	3.1	13
11	An improved ordinary-state based peridynamic formulation for modeling FGMs with sharp interface transitions. International Journal of Mechanical Sciences, 2021, 197, 106322.	3.6	13
12	Comparative Study of Peridynamics and Finite Element Method for Practical Modeling of Cracks in Topology Optimization. Symmetry, 2021, 13, 1407.	1.1	6
13	An experimental investigation on damage mechanisms of thick hybrid composite structures under flexural loading using multi-instrument measurements. Aerospace Science and Technology, 2021, 117, 106921.	2.5	14
14	A combined experimental/numerical study on deformation sensing of sandwich structures through inverse analysis of pre-extrapolated strain measurements. Measurement: Journal of the International Measurement Confederation, 2021, 185, 110031.	2.5	23
15	A new methodology for thermoelastic model identification in composite materials using digital image correlation. Optics and Lasers in Engineering, 2021, 146, 106689.	2.0	10
16	Simulation of pandemics in real cities: enhanced and accurate digital laboratories. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200653.	1.0	3
17	Delamination damage identification in composite shell structures based on Inverse Finite Element Method and Refined Zigzag Theory. , 2021, , 354-363.		3
18	A Comparative and Review Study on Shape and Stress Sensing of Flat/Curved Shell Geometries Using C0-Continuous Family of iFEM Elements. Sensors, 2020, 20, 3808.	2.1	28

#	Article	IF	Citations
19	Nonlinear Modelling of T-shaped Piezoelectric Device for Structural Health Monitoring and Fluid Energy Harvesting. , 2020, , .		0
20	Isogeometric iFEM Analysis of Thin Shell Structures. Sensors, 2020, 20, 2685.	2.1	43
21	An ordinary state-based peridynamic model for toughness enhancement of brittle materials through drilling stop-holes. International Journal of Mechanical Sciences, 2020, 182, 105773.	3.6	21
22	Damage mechanisms in CFRP/HNT laminates under flexural and in-plane shear loadings using experimental and numerical methods. Composites Part A: Applied Science and Manufacturing, 2020, 136, 105962.	3.8	15
23	Dent damage identification in stiffened cylindrical structures using inverse Finite Element Method. Ocean Engineering, 2020, 198, 106944.	1.9	41
24	Structural health monitoring of an offshore wind turbine tower using iFEM methodology. Ocean Engineering, 2020, 204, 107291.	1.9	49
25	An isogeometric FE-BE method and experimental investigation for the hydroelastic analysis of a horizontal circular cylindrical shell partially filled with fluid. Thin-Walled Structures, 2020, 151, 106755.	2.7	21
26	Dynamic fracture analysis of functionally graded materials using ordinary state-based peridynamics. Composite Structures, 2020, 244, 112296.	3.1	48
27	Continuous density-based topology optimization of cracked structures using peridynamics. Structural and Multidisciplinary Optimization, 2020, 62, 2375-2389.	1.7	23
28	Parameter identification strategy for online detection of faults in smart structures for energy harvesting and sensing. Procedia Structural Integrity, 2020, 28, 2104-2109.	0.3	0
29	Electromechanical contact elements for modelling adhesion and interfacial interactions in electrospun nanofibers systems. Procedia Structural Integrity, 2020, 28, 2142-2147.	0.3	0
30	An efficient curved inverse-shell element for shape sensing and structural health monitoring of cylindrical marine structures. Ocean Engineering, 2019, 188, 106262.	1.9	66
31	Topology optimization of cracked structures using peridynamics. Continuum Mechanics and Thermodynamics, 2019, 31, 1645-1672.	1.4	51
32	Isogeometric plate element for unstiffened and blade stiffened laminates based on refined zigzag theory. Composite Structures, 2019, 222, 110931.	3.1	16
33	Experimental and numerical investigation on fracture behavior of glass/carbon fiber hybrid composites using acoustic emission method and refined zigzag theory. Composite Structures, 2019, 223, 110971.	3.1	74
34	A computational model of peridynamic theory for deflecting behavior of crack propagation with micro-cracks. Computational Materials Science, 2019, 162, 33-46.	1.4	54
35	A novel isogeometric beam element based on mixed form of refined zigzag theory for thick sandwich and multilayered composite beams. Composites Part B: Engineering, 2019, 167, 100-121.	5.9	30
36	Modelling and parameter identification of electromechanical systems for energy harvesting and sensing. Mechanical Systems and Signal Processing, 2019, 121, 890-912.	4.4	15

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37	Structural health monitoring of submarine pressure hull using inverse finite element method. , 2019, , 293-302.		4
38	Three dimensional shape and stress monitoring of bulk carriers based on iFEM methodology. Ocean Engineering, 2018, 147, 256-267.	1.9	66
39	Isogeometric analysis using peridynamics and XFEM. , 2018, , .		4
40	Shape Sensing of Aerospace Structures by Coupling Isogeometric Analysis and Inverse Finite Element Method. , 2017, , .		9
41	An enhanced inverse finite element method for displacement and stress monitoring of multilayered composite and sandwich structures. Composite Structures, 2017, 179, 514-540.	3.1	82
42	Modeling of Sensor Placement Strategy for Shape Sensing and Structural Health Monitoring of a Wing-Shaped Sandwich Panel Using Inverse Finite Element Method. Sensors, 2017, 17, 2775.	2.1	51
43	Shape and stress sensing of offshore structures by using inverse finite element method. , 2017, , 141-148.		5
44	A quadrilateral inverse-shell element with drilling degrees of freedom for shape sensing and structural health monitoring. Engineering Science and Technology, an International Journal, 2016, 19, 1299-1313.	2.0	65
45	Displacement and stress monitoring of a Panamax containership using inverse finite element method. Ocean Engineering, 2016, 119, 16-29.	1.9	92
46	Displacement and stress monitoring of a chemical tanker based on inverse finite element method. Ocean Engineering, 2016, 112, 33-46.	1.9	80
47	Shape- and Stress-Sensing of a Container Ship by using Inverse Finite Element Method. , 2016, , .		1
48	Lamine kompozit ve sandviç plakaların şekil ve gerilme algılaması için yeni bir dört-düğüm noktalı ters-plaka elemanı. Journal of the Faculty of Engineering and Architecture of Gazi University, 0, , .	0.3	0