Demirkan Coker

List of Publications by Year
in descending order

56	1,314	471509 17	345221 36
papers	citations	h-index	g-index

61	61	61	966
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Intersonic shear crack propagation using peridynamic theory. International Journal of Fracture, 2021, 228, 103-126.	2.2	3
2	Improvement of structural characteristics of composite thin-walled beams using variable stiffness concept via curvilinear fiber placement. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2021, 235, 2017-2032.	1.3	1
3	In-situ investigation of dynamic failure in [05/903]s CFRP beams under quasi-static and low-velocity impact loadings. International Journal of Solids and Structures, 2021, 217-218, 134-154.	2.7	8
4	2D and 3D simulations of dynamic delamination in curved unidirectional CFRP laminates subjected to moment/axial combined loading. Composite Structures, 2021, 268, 113899.	5.8	4
5	Understanding mechanical failure of graphite rocket nozzle throats under thermal stresses. Aerospace Science and Technology, 2021, 119, 107152.	4.8	8
6	Strength analysis of a 5-m composite wind turbine blade under static and fatigue loading conditions. IOP Conference Series: Materials Science and Engineering, 2020, 942, 012045.	0.6	0
7	Finite element simulations for investigating the strength characteristics of a 5â€‰m composite wind turbine blade. Wind Energy Science, 2020, 5, 1339-1358.	3.3	8
8	Comparison of damage mechanisms in curved composite laminates under static and fatigue loading. Composite Structures, 2019, 213, 190-203.	5.8	21
9	Finite Element Modelling of TBC Failure Mechanisms by Using XFEM and CZM. Procedia Structural Integrity, 2019, 21, 91-100.	0.8	8
10	3D Simulation of Dynamic Delamination in Curved Composite Laminates. Procedia Structural Integrity, 2019, 21, 130-137.	0.8	1
11	Simulation of Drop-Weight Impact Test on Composite Laminates using Finite Element Method. Procedia Structural Integrity, 2019, 21, 206-214.	0.8	6
12	Interlaminar tensile strength of different angle-ply CFRP composites. Procedia Structural Integrity, 2019, 21, 198-205.	0.8	8
13	Investigation of fretting fatigue failure mechanism of lug-bush connection members. Procedia Structural Integrity, 2019, 21, 215-223.	0.8	1
14	Development of Bolted Flange Design Tool Based on Artificial Neural Network. Journal of Pressure Vessel Technology, Transactions of the ASME, 2019, 141, .	0.6	1
15	Finite Element Modelling of TBC Failure Mechanisms by Using XFEM. , 2018, , .		0
16	Dynamic Frictional Sliding Modes between Two Homogenous Interfaces. IOP Conference Series: Materials Science and Engineering, 2018, 295, 012001.	0.6	1
17	Peridynamic Modelling of Delamination in DCB Specimen. Procedia Structural Integrity, 2018, 13, 2126-2131.	0.8	4
18	Damage Progression in Thick Curved Composite Laminates under Static and Fatigue Loading. Journal of Physics: Conference Series, 2018, 1037, 042025.	0.4	1

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19	Strength Analysis of a Composite Turbine Blade Using Puck Failure Criteria. Journal of Physics: Conference Series, 2018, 1037, 042027.	0.4	7
20	Finite element analysis of fretting contact for nonhomogenous materials. IOP Conference Series: Materials Science and Engineering, 2018, 295, 012006.	0.6	0
21	Sliding contact on the interface of elastic body and rigid surface using a single block Burridge-Knopoff model. IOP Conference Series: Materials Science and Engineering, 2018, 295, 012031.	0.6	0
22	Experimental and computational study of the damage process in CFRP composite beams under low-velocity impact. Composites Part A: Applied Science and Manufacturing, 2017, 92, 167-182.	7.6	99
23	Comparison of Equivalent Stress Methods with Critical Plane Approaches for Multiaxial High Cycle Fatigue Assessment. Procedia Structural Integrity, 2017, 5, 1229-1236.	0.8	19
24	Finite element analysis of fretting contact for dissimilar and nonhomogeneous materials. Procedia Structural Integrity, 2017, 5, 452-459.	0.8	2
25	Experimental Investigation of Strength of Curved Beam by Thin Ply Non-Crimp Fabric Laminates. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 37-42.	0.5	2
26	Experimental Study and Finite Element Analysis of Dovetail Attachments. , 2017, , .		1
27	Development of Artificial Neural Network Based Design Tool for Aircraft Engine Bolted Flange Connection Subject to Combined Axial and Moment Load. , 2017, , .		2
28	Modeling of dynamic crack propagation using rate dependent interface model. Theoretical and Applied Fracture Mechanics, 2016, 85, 191-206.	4.7	20
29	Experimental and Computational Investigation of Out-of-Plane Low Velocity Impact Behavior of CFRP Composite Plates. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 9-16.	0.5	0
30	Development of Bolted Flange Design Tool Based on Finite Element Analysis and Artificial Neural Network. , 2015, , .		2
31	Experimental Investigation of the Effect of CNT Addition on the Strength of CFRP Curved Composite Beams. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 177-184.	0.5	2
32	Intersonic delamination in curved thick composite laminates under quasi-static loading. Mechanics of Materials, 2015, 80, 163-182.	3.2	29
33	Experimental investigation of CNT effect on curved beam strength and interlaminar fracture toughness of CFRP laminates. Journal of Physics: Conference Series, 2014, 524, 012038.	0.4	14
34	Elastic analysis of a circumferential crack in an isotropic curved beam using the modified mappingâ€“collocation method. Journal of Computational and Applied Mathematics, 2014, 264, 131-138.	2.0	0
35	Dynamic delamination in curved composite laminates under quasi-static loading. Journal of Physics: Conference Series, 2014, 524, 012042.	0.4	3
36	Delamination-Debond Behaviour of Composite T- Joints in Wind Turbine Blades. Journal of Physics: Conference Series, 2014, 524, 012043.	0.4	7

#	Article	IF	Citations
37	Modeling of Dynamic Delamination in L-Shaped Composite Brackets. , 2012, , .		0
38	Experimental and Computational Investigation of Debonding at the Interface of Two L-Shaped Polycarbonate Plates. , 2012, , .		0
39	Modeling of the dynamic delamination of L-shaped unidirectional laminated composites. Composite Structures, 2012, 94, 1430-1442.	5.8	51
40	Failure Mode Transition During Delamination of Thick Unidirectional L-Shaped Composite Laminates. , 2012, , .		0
41	An in vitro mechanical comparison of tibial plateau levelling osteotomy plates. Veterinary and Comparative Orthopaedics and Traumatology, 2009, 22, 467-472.	0.5	9
42	Biomechanical Analysis of Suture Anchors and Suture Materials in the Canine Femur. Veterinary Surgery, 2008, 37, 12-21.	1.0	12
43	Simulation of dynamic crack growth using the generalized interpolation material point (GIMP) method. International Journal of Fracture, 2007, 143, 79-102.	2.2	64
44	Frictional sliding modes along an interface between identical elastic plates subject to shear impact loading. Journal of the Mechanics and Physics of Solids, 2005, 53, 884-922.	4.8	57
45	Dynamic crack growth along a polymer compositeâ€“Homalite interface. Journal of the Mechanics and Physics of Solids, 2003, 51, 425-460.	4.8	55
46	Depth of Cracking beneath Impact Craters: New Constraint for Impact Velocity. AIP Conference Proceedings, 2002, , .	0.4	11
47	Three-dimensional modeling of intersonic shear-crack growth in asymmetrically loaded unidirectional composite plates. International Journal of Solids and Structures, 2002, 39, 6135-6157.	2.7	58
48	Experimental observations of intersonic crack growth in asymmetrically loaded unidirectional composite plates. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 571-595.	0.6	65
49	Experimental observations of intersonic crack growth in asymmetrically loaded unidirectional composite plates. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 571-595.	0.6	2
50	Intersonic shear crack growth along weak planes. Materials Research Innovations, 2000, 3, 236-243.	2.3	58
51	Cracks Faster than the Shear Wave Speed. Science, 1999, 284, 1337-1340.	12.6	465
52	Cyclic behavior of unidirectional and cross-ply titanium matrix composites. International Journal of Plasticity, 1996, 12, 361-385.	8.8	20
53	Weight function for a single edge cracked geometry with clamped ends. International Journal of Fracture, 1995, 72, 145-158.	2.2	29
54	An experimental study of residual fiber strains in Ti-15-3 continuous fiber composites. Acta Metallurgica Et Materialia, 1995, 43, 3105-3112.	1.8	29

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55	Stress intensity factor and compliance solutions for a single edge notched specimen with clamped ends. Engineering Fracture Mechanics, 1994, 47, 521-532.	4.3	28
56	Fatigue and static damage in curved woven fabric carbon fiber reinforced polymer laminates. Journal of Composite Materials, 0, , 002199832210787.	2.4	0