

Demirkan Coker

List of Publications by Year in descending order

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56
papers

1,314
citations

471509

17
h-index

345221

36
g-index

61
all docs

61
docs citations

61
times ranked

966
citing authors

#	ARTICLE	IF	CITATIONS
1	Cracks Faster than the Shear Wave Speed. <i>Science</i> , 1999, 284, 1337-1340.	12.6	465
2	Experimental and computational study of the damage process in CFRP composite beams under low-velocity impact. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 92, 167-182.	7.6	99
3	Experimental observations of intersonic crack growth in asymmetrically loaded unidirectional composite plates. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001, 81, 571-595.	0.6	65
4	Simulation of dynamic crack growth using the generalized interpolation material point (GIMP) method. <i>International Journal of Fracture</i> , 2007, 143, 79-102.	2.2	64
5	Intersonic shear crack growth along weak planes. <i>Materials Research Innovations</i> , 2000, 3, 236-243.	2.3	58
6	Three-dimensional modeling of intersonic shear-crack growth in asymmetrically loaded unidirectional composite plates. <i>International Journal of Solids and Structures</i> , 2002, 39, 6135-6157.	2.7	58
7	Frictional sliding modes along an interface between identical elastic plates subject to shear impact loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2005, 53, 884-922.	4.8	57
8	Dynamic crack growth along a polymer composite-Homalite interface. <i>Journal of the Mechanics and Physics of Solids</i> , 2003, 51, 425-460.	4.8	55
9	Modeling of the dynamic delamination of L-shaped unidirectional laminated composites. <i>Composite Structures</i> , 2012, 94, 1430-1442.	5.8	51
10	Weight function for a single edge cracked geometry with clamped ends. <i>International Journal of Fracture</i> , 1995, 72, 145-158.	2.2	29
11	An experimental study of residual fiber strains in Ti-15-3 continuous fiber composites. <i>Acta Metallurgica Et Materialia</i> , 1995, 43, 3105-3112.	1.8	29
12	Intersonic delamination in curved thick composite laminates under quasi-static loading. <i>Mechanics of Materials</i> , 2015, 80, 163-182.	3.2	29
13	Stress intensity factor and compliance solutions for a single edge notched specimen with clamped ends. <i>Engineering Fracture Mechanics</i> , 1994, 47, 521-532.	4.3	28
14	Comparison of damage mechanisms in curved composite laminates under static and fatigue loading. <i>Composite Structures</i> , 2019, 213, 190-203.	5.8	21
15	Cyclic behavior of unidirectional and cross-ply titanium matrix composites. <i>International Journal of Plasticity</i> , 1996, 12, 361-385.	8.8	20
16	Modeling of dynamic crack propagation using rate dependent interface model. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 85, 191-206.	4.7	20
17	Comparison of Equivalent Stress Methods with Critical Plane Approaches for Multiaxial High Cycle Fatigue Assessment. <i>Procedia Structural Integrity</i> , 2017, 5, 1229-1236.	0.8	19
18	Experimental investigation of CNT effect on curved beam strength and interlaminar fracture toughness of CFRP laminates. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012038.	0.4	14

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19	Biomechanical Analysis of Suture Anchors and Suture Materials in the Canine Femur. <i>Veterinary Surgery</i> , 2008, 37, 12-21.	1.0	12
20	Depth of Cracking beneath Impact Craters: New Constraint for Impact Velocity. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	11
21	An in vitro mechanical comparison of tibial plateau levelling osteotomy plates. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2009, 22, 467-472.	0.5	9
22	Finite Element Modelling of TBC Failure Mechanisms by Using XFEM and CZM. <i>Procedia Structural Integrity</i> , 2019, 21, 91-100.	0.8	8
23	Interlaminar tensile strength of different angle-ply CFRP composites. <i>Procedia Structural Integrity</i> , 2019, 21, 198-205.	0.8	8
24	In-situ investigation of dynamic failure in [05/903]s CFRP beams under quasi-static and low-velocity impact loadings. <i>International Journal of Solids and Structures</i> , 2021, 217-218, 134-154.	2.7	8
25	Understanding mechanical failure of graphite rocket nozzle throats under thermal stresses. <i>Aerospace Science and Technology</i> , 2021, 119, 107152.	4.8	8
26	Finite element simulations for investigating the strength characteristics of a 5â€™m composite wind turbine blade. <i>Wind Energy Science</i> , 2020, 5, 1339-1358.	3.3	8
27	Delamination-Debond Behaviour of Composite T-Joints in Wind Turbine Blades. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012043.	0.4	7
28	Strength Analysis of a Composite Turbine Blade Using Puck Failure Criteria. <i>Journal of Physics: Conference Series</i> , 2018, 1037, 042027.	0.4	7
29	Simulation of Drop-Weight Impact Test on Composite Laminates using Finite Element Method. <i>Procedia Structural Integrity</i> , 2019, 21, 206-214.	0.8	6
30	Peridynamic Modelling of Delamination in DCB Specimen. <i>Procedia Structural Integrity</i> , 2018, 13, 2126-2131.	0.8	4
31	2D and 3D simulations of dynamic delamination in curved unidirectional CFRP laminates subjected to moment/axial combined loading. <i>Composite Structures</i> , 2021, 268, 113899.	5.8	4
32	Dynamic delamination in curved composite laminates under quasi-static loading. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012042.	0.4	3
33	Intersonic shear crack propagation using peridynamic theory. <i>International Journal of Fracture</i> , 2021, 228, 103-126.	2.2	3
34	Experimental observations of intersonic crack growth in asymmetrically loaded unidirectional composite plates. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001, 81, 571-595.	0.6	2
35	Development of Bolted Flange Design Tool Based on Finite Element Analysis and Artificial Neural Network. , 2015, , .		2
36	Experimental Investigation of the Effect of CNT Addition on the Strength of CFRP Curved Composite Beams. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015, , 177-184.	0.5	2

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37	Finite element analysis of fretting contact for dissimilar and nonhomogeneous materials. Procedia Structural Integrity, 2017, 5, 452-459.	0.8	2
38	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
39	Development of Artificial Neural Network Based Design Tool for Aircraft Engine Bolted Flange Connection Subject to Combined Axial and Moment Load. , 2017, , .		2
40	Experimental Study and Finite Element Analysis of Dovetail Attachments. , 2017, , .		1
41	Dynamic Frictional Sliding Modes between Two Homogenous Interfaces. IOP Conference Series: Materials Science and Engineering, 2018, 295, 012001.	0.6	1
42	Damage Progression in Thick Curved Composite Laminates under Static and Fatigue Loading. Journal of Physics: Conference Series, 2018, 1037, 042025.	0.4	1
43	3D Simulation of Dynamic Delamination in Curved Composite Laminates. Procedia Structural Integrity, 2019, 21, 130-137.	0.8	1
44	Investigation of fretting fatigue failure mechanism of lug-bush connection members. Procedia Structural Integrity, 2019, 21, 215-223.	0.8	1
45	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
46	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
47	Modeling of Dynamic Delamination in L-Shaped Composite Brackets. , 2012, , .		0
48	Experimental and Computational Investigation of Debonding at the Interface of Two L-Shaped Polycarbonate Plates. , 2012, , .		0
49	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
50	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
51	Finite Element Modelling of TBC Failure Mechanisms by Using XFEM. , 2018, , .		0
52	Finite element analysis of fretting contact for nonhomogenous materials. IOP Conference Series: Materials Science and Engineering, 2018, 295, 012006.	0.6	0
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	Failure Mode Transition During Delamination of Thick Unidirectional L-Shaped Composite Laminates. , 2012, , .		0
56	Fatigue and static damage in curved woven fabric carbon fiber reinforced polymer laminates. Journal of Composite Materials, 0, , 002199832210787.	2.4	0