

# „ Mustafa Kemal Apalak

## List of Publications by Year in descending order

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102  
papers

1,752  
citations

270111

25  
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425179

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docs citations

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times ranked

1006  
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#	ARTICLE	IF	CITATIONS
1	Evaluation of geometrically nonlinear and elastoplastic behavior of functionally graded plates under mechanical loadingâ€“unloading. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1587-1600.	1.5	2
2	Flexural impact response and damage detection of composite sandwich beam with various PVC foam cores. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1276-1293.	1.5	3
3	Loading-rate effect on tensile and bending strength of 3D-printed polylactic acid adhesively bonded joints. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 317-344.	1.4	14
4	Low-speed bending impact behaviour of adhesively bonded dissimilar single-lap joints. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 1794-1822.	1.4	3
5	Experimental Investigation of Oblique Impact Behavior of Adhesively Bonded Composite Single-Lap Joints. <i>Applied Composite Materials</i> , 2022, 29, 1293-1319.	1.3	4
6	Low-Speed Oblique Impact Response of Adhesively Bonded Dissimilar Single-Lap Joints. <i>Journal of Aerospace Engineering</i> , 2022, 35, .	0.8	1
7	Numerical investigation on normal and oblique ballistic impact behavior of functionally graded plates. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 2114-2130.	1.5	10
8	Numerical model for composite patch repair of notched aluminum plates under impact loading. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 958-973.	0.7	0
9	Thermoelastic analysis of temperature-dependent functionally graded rectangular plates using finite element and finite difference methods. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 707-724.	1.5	21
10	Low velocity oblique impact behavior of adhesively bonded single lap joints. <i>Journal of Adhesion Science and Technology</i> , 2020, 34, 263-298.	1.4	8
11	A study on lowâ€“velocity impact performance of notched GFRP composites repaired by different composite patches: Experiment and modeling. <i>Polymer Composites</i> , 2020, 41, 1323-1340.	2.3	17
12	Experimental study on structure optimization of functionally graded sandwich plates under ballistic impact. <i>Journal of Composite Materials</i> , 2020, 54, 3967-3980.	1.2	9
13	Elastic flexural analysis of adhesively bonded similar and dissimilar beams using refined zigzag theory and peridynamic differential operator. <i>International Journal of Adhesion and Adhesives</i> , 2020, 101, 102631.	1.4	10
14	The response of pin-clamped carbon fibre-reinforced plastics composite sandwich beams with polyvinylchloride foam core under bending impact. <i>Journal of Reinforced Plastics and Composites</i> , 2020, 39, 384-405.	1.6	2
15	Impact penetration and perforation performance of square sandwich panels with EPS foam core. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2020, 45, 1.	0.8	3
16	Experimental investigation of the low-velocity impact response of sandwich plates with functionally graded core. <i>Journal of Composite Materials</i> , 2020, 54, 3571-3593.	1.2	7
17	Stress wave propagation in a through-thickness functionally graded adhesive layer. <i>Journal of Adhesion Science and Technology</i> , 2019, 33, 2329-2355.	1.4	6
18	Stress wave propagation in adhesively bonded functionally graded cylinders: an improved model. <i>Journal of Adhesion Science and Technology</i> , 2019, 33, 156-186.	1.4	8

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19	Stress wave propagation in a functionally graded adhesive layer between two identical cylinders. <i>Journal of Adhesion</i> , 2019, 95, 1146-1181.	1.8	11
20	Low speed impact behaviour of adhesively bonded foam-core sandwich T-joints. <i>Journal of Adhesion Science and Technology</i> , 2019, 33, 217-242.	1.4	7
21	Thermal stress analysis of one- and two-dimensional functionally graded plates subjected to in-plane heat fluxes. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 546-562.	0.7	7
22	Bending impact behaviour of sandwich beams with expanded polystyrene foam core: Analysis. <i>Journal of Sandwich Structures and Materials</i> , 2019, 21, 230-259.	2.0	10
23	Ballistic performance of honeycomb sandwich structures reinforced by functionally graded face plates. <i>Journal of Sandwich Structures and Materials</i> , 2019, 21, 211-229.	2.0	23
24	Improved Mathematical Models of Thermal Residual Stresses in Functionally Graded Adhesively Bonded Joints: A Critical Review. <i>Reviews of Adhesion and Adhesives</i> , 2019, 7, 367-416.	3.3	9
25	Thermal stress analysis of in-plane two-directional functionally graded plates subjected to in-plane edge heat fluxes. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018, 232, 693-716.	0.7	4
26	Investigation of the Thermo-elastic Response of Adhesively Bonded Two-Dimensional Functionally Graded Circular Plates Based on Theory of Elasticity. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2018, 42, 415-433.	0.8	9
27	Low-speed bending impact behavior of adhesively bonded single-lap joints. <i>Journal of Adhesion Science and Technology</i> , 2017, 31, 1545-1575.	1.4	10
28	Experimental tests and numerical modeling of ballistic impact on honeycomb sandwich structures reinforced by functionally graded plates. <i>Journal of Composite Materials</i> , 2017, 51, 4009-4028.	1.2	25
29	Low velocity bending impact behavior of foam core sandwich beams: Experimental. <i>Composites Part B: Engineering</i> , 2017, 112, 158-175.	5.9	60
30	FEM ANALYSES OF LOW VELOCITY IMPACT BEHAVIOUR OF SANDWICH PANELS WITH EPS FOAM CORE. <i>Journal of Thermal Engineering</i> , 2017, 3, 1544-1552.	0.8	4
31	Stress wave propagation in adhesively bonded functionally graded circular cylinders. <i>Journal of Adhesion Science and Technology</i> , 2016, 30, 1281-1309.	1.4	12
32	Experimental damage analysis of Al/SiC functionally graded sandwich plates under ballistic impact. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 671, 107-117.	2.6	41
33	Thermal Stresses in Adhesively Bonded Joints/Patches and Their Modeling: A Critical Review. <i>Reviews of Adhesion and Adhesives</i> , 2016, 4, 223-280.	3.3	0
34	Ways to Mitigate Thermal Stresses in Adhesively Bonded Joints/Patches: A Critical Review. <i>Reviews of Adhesion and Adhesives</i> , 2016, 4, 281-333.	3.3	0
35	Stress wave propagation in adhesively bonded similar and dissimilar circular cylinders. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 778-806.	1.4	4
36	Elastic wave propagation in functionally graded circular cylinders. <i>Composites Part B: Engineering</i> , 2015, 73, 35-48.	5.9	34

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37	Thermal residual stresses in in-plane functionally graded clamped hollow circular plates subjected to an edge heat flux. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2015, 229, 236-260.	0.7	5
38	Experimental investigation on transverse low-speed impact behavior of adhesively bonded similar and dissimilar clamped plates. Journal of Adhesion Science and Technology, 2014, 28, 1219-1242.	1.4	7
39	The Artificial Bee Colony algorithm in layer optimization for the maximum fundamental frequency of symmetrical laminated composite plates. Engineering Optimization, 2014, 46, 420-437.	1.5	65
40	Free vibration analysis of an adhesively bonded functionally graded double containment cantilever joint. Journal of Adhesion Science and Technology, 2014, 28, 1117-1139.	1.4	17
41	In-Plane Thermal Residual Stresses in Functionally Graded Plates. , 2014, , .		4
42	Experimental and numerical investigations of low velocity impact on functionally graded circular plates. Composites Part B: Engineering, 2014, 59, 21-32.	5.9	69
43	Simulated and actual micro-structure models on the indentation behaviors of particle reinforced metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 606, 290-298.	2.6	12
44	Functionally Graded Adhesively Bonded Joints. Reviews of Adhesion and Adhesives, 2014, 2, 56-84.	3.3	13
45	Thermal residual stresses in adhesively bonded in-plane functionally graded clamped circular hollow plates. Journal of Adhesion Science and Technology, 2013, 27, 1590-1623.	1.4	17
46	Effect of Adhesive Thickness on Transverse Low-Speed Impact Behavior of Adhesively Bonded Similar and Dissimilar Clamped Plates. Journal of Adhesion Science and Technology, 2011, 25, 2587-2613.	1.4	16
47	Free Vibration Analysis of an Adhesively Bonded Functionally Graded Tubular Single Lap Joint. Journal of Adhesion, 2011, 87, 902-925.	1.8	13
48	Transverse Low-Speed Impact Behavior of Adhesively Bonded Similar and Dissimilar Clamped Plates. Journal of Adhesion Science and Technology, 2011, 25, 69-91.	1.4	19
49	Thermal Residual Stresses in One-Directional Functionally Graded Plates Subjected to In-Plane Heat Flux. Numerical Heat Transfer; Part A: Applications, 2011, 60, 50-83.	1.2	15
50	Layer optimization for maximum fundamental frequency of rigid point-supported laminated composite plates. Polymer Composites, 2011, 32, 1988-2000.	2.3	16
51	Indentation behavior of functionally graded Al-SiC metal matrix composites with random particle dispersion. Composites Part B: Engineering, 2011, 42, 1497-1507.	5.9	26
52	The elasto-plastic impact analysis of functionally graded circular plates under low-velocities. Composite Structures, 2011, 93, 860-869.	3.1	61
53	Thermal Residual Stresses in Adhesively Bonded In-plane Functionally Graded Clamped Plates Subjected to an Edge Heat Flux. Journal of Adhesion Science and Technology, 2011, 25, 1861-1908.	1.4	18
54	Impact performance of Al/SiC functionally graded circular plates. International Journal of Materials and Product Technology, 2011, 42, 56.	0.1	4

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55	Effects of random particle dispersion and size on the indentation behavior of SiC particle reinforced metal matrix composites. <i>Materials &amp; Design</i> , 2010, 31, 2818-2833.	5.1	61
56	Free vibration analysis of adhesively bonded single lap joints with wide and narrow functionally graded plates. <i>Composite Structures</i> , 2010, 92, 1-17.	3.1	40
57	Determination of Structural Damping and Optimal Vibration Control of an Adhesively-Bonded Double Containment Cantilever Joint. <i>Journal of Adhesion Science and Technology</i> , 2009, 23, 339-359.	1.4	2
58	Effects of Random Particle Dispersion and Particle Volume Fraction on the Indentation Behavior of SiC Particle-Reinforced Metal-Matrix Composites. <i>Journal of Composite Materials</i> , 2009, 43, 3191-3210.	1.2	6
59	Free Vibration Analysis and Optimal Design of a Clamped-free Single Lap Joint with Unidirectional Laminated Narrow Plates. <i>Journal of Thermoplastic Composite Materials</i> , 2009, 22, 183-211.	2.6	6
60	Layer optimisation for maximum fundamental frequency of laminated composite plates for different edge conditions. <i>Composites Science and Technology</i> , 2008, 68, 537-550.	3.8	65
61	Post-Buckling of Functionally Graded Cylindrical Shells. , 2007, , 185.		0
62	Free Vibration Analysis and Design of an Adhesively Bonded Composite Single Lap Joint. , 2007, , 211.		0
63	Optimal vibration attenuation of an adhesively-bonded cantilevered single-lap joint. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 267-286.	1.4	6
64	Progressive Damage Modeling of an Adhesively Bonded Composite Single Lap Joint Under Flexural Loads at the Mesoscale Level. <i>Journal of Reinforced Plastics and Composites</i> , 2007, 26, 903-953.	1.6	15
65	Free Vibration Analysis and Design of an Adhesively Bonded Corner Joint with Double Support. <i>Journal of Adhesion</i> , 2007, 83, 957-986.	1.8	8
66	Free Vibration Analysis and Optimal Design of a Cantilevered Adhesively Bonded Composite Tubular Single Lap Joint. <i>Polymers and Polymer Composites</i> , 2007, 15, 489-506.	1.0	5
67	Thermal residual stresses in an adhesively bonded functionally graded tubular single lap joint. <i>International Journal of Adhesion and Adhesives</i> , 2007, 27, 26-48.	1.4	29
68	The free vibration analysis and optimal design of an adhesively bonded functionally graded single lap joint. <i>International Journal of Mechanical Sciences</i> , 2007, 49, 479-499.	3.6	32
69	Elastic flexural behaviour of an adhesively bonded single lap joint with functionally graded adherends. <i>Materials &amp; Design</i> , 2007, 28, 1597-1617.	5.1	52
70	Non-linear elastic stresses in a thin hard coating/an elastic substrate system subjected to a surface pressure distribution. <i>Journal of Materials Processing Technology</i> , 2007, 190, 263-281.	3.1	3
71	Progressive Damage Modeling of an Adhesively Bonded Unidirectional Composite Single-lap Joint in Tension at the Mesoscale Level. <i>Journal of Thermoplastic Composite Materials</i> , 2006, 19, 671-702.	2.6	27
72	Optimal design of an adhesively-bonded corner joint with single support based on the free vibration analysis. <i>Journal of Adhesion Science and Technology</i> , 2006, 20, 1507-1528.	1.4	13

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73	Elastic stresses in an adhesively-bonded functionally-graded tubular single-lap joint in tension. <i>Journal of Adhesion Science and Technology</i> , 2006, 20, 1019-1046.	1.4	17
74	Thermal residual stresses in an adhesively-bonded functionally graded single-lap joint. <i>Journal of Adhesion Science and Technology</i> , 2006, 20, 1295-1320.	1.4	19
75	Stress Analysis of an Adhesively Bonded Functionally Graded Tubular Single Lap Joint Subjected to an Internal Pressure. <i>Science and Engineering of Composite Materials</i> , 2006, 13, 183-212.	0.6	14
76	Investigation of elastic stresses in an adhesively bonded single lap joint with functionally graded adherends in tension. <i>Composite Structures</i> , 2005, 70, 444-467.	3.1	31
77	Thermal Residual Stress Analysis of Ni <sup>Al</sup> 2O3, Ni <sup>Ti</sup> O2, and Ti <sup>Si</sup> C Functionally Graded Composite Plates Subjected to Various Thermal Fields. <i>Journal of Thermoplastic Composite Materials</i> , 2005, 18, 119-152.	2.6	26
78	Effect of adhesive free-end geometry on the initiation and propagation of damaged zones in adhesively bonded lap joints. <i>Journal of Adhesion Science and Technology</i> , 2004, 18, 529-559.	1.4	25
79	Geometrically non-linear thermal stress analysis of an adhesively bonded tubular single lap joint. <i>Finite Elements in Analysis and Design</i> , 2003, 39, 155-174.	1.7	29
80	Thermal non-linear stresses in an adhesively bonded and laser-spot welded single-lap joint during laser-metal interaction. <i>Journal of Materials Processing Technology</i> , 2003, 142, 1-19.	3.1	19
81	Steady-state thermal and geometrical non-linear stress analysis of an adhesively bonded tee joint with double support. <i>International Journal of Adhesion and Adhesives</i> , 2003, 23, 115-130.	1.4	28
82	Thermal and geometrically non-linear stress analyses of an adhesively bonded composite tee joint. <i>Composites Part A: Applied Science and Manufacturing</i> , 2003, 34, 135-150.	3.8	18
83	An investigation on the initiation and propagation of damaged zones in adhesively bonded lap joints. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 1889-1921.	1.4	24
84	Thermal non-linear elastic stress analysis of an adhesively bonded T-joint. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 995-1016.	1.4	11
85	On the non-linear elastic stresses in an adhesively bonded T-joint with double support. <i>Journal of Adhesion Science and Technology</i> , 2002, 16, 459-491.	1.4	17
86	On non-linear thermal stresses in an adhesively bonded single lap joint. <i>Computers and Structures</i> , 2002, 80, 85-98.	2.4	48
87	Geometrically non-Linear Thermal Stress Analysis of an Adhesively Bonded Tee Joint With Double Support. , 2001, , 711-718.		0
88	Geometrically non-linear analysis of an adhesively bonded modified double containment corner joint " I. <i>Journal of Adhesion Science and Technology</i> , 2000, 14, 1159-1177.	1.4	7
89	Geometrically non-linear analysis of adhesively bonded corner joints. <i>Journal of Adhesion Science and Technology</i> , 1999, 13, 1253-1285.	1.4	27
90	Geometrically Non-Linear Analysis of Adhesively Bonded Double Containment Corner Joints. <i>Journal of Adhesion</i> , 1998, 66, 117-133.	1.8	10

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91	Geometrically non-linear analysis of adhesively bonded modified double containment corner joints - II. Journal of Adhesion Science and Technology, 1998, 12, 135-160.	1.4	10
92	Geometrically non-linear analysis of adhesively bonded double containment cantilever joints. Journal of Adhesion Science and Technology, 1997, 11, 1153-1195.	1.4	28
93	Analysis and design of tee joints with double support. International Journal of Adhesion and Adhesives, 1996, 16, 187-214.	1.4	29
94	Analysis and design of adhesively bonded tee joints with a single support plus angled reinforcement. Journal of Adhesion Science and Technology, 1996, 10, 681-724.	1.4	18
95	Analysis and design of adhesively bonded modified double containment corner joints -II. Journal of Adhesion Science and Technology, 1996, 10, 907-937.	1.4	14
96	Analysis and design of adhesively-bonded double-containment corner joints. Journal of Adhesion Science and Technology, 1995, 9, 267-293.	1.4	26
97	Analysis and design of adhesively modified double-containment corner joints part 1. Journal of Strain Analysis for Engineering Design, 1995, 30, 91-115.	1.0	5
98	Analysis and design of adhesively bonded corner joints: fillet effect. International Journal of Adhesion and Adhesives, 1994, 14, 163-174.	1.4	26
99	Analysis and design of adhesively bonded corner joints. International Journal of Adhesion and Adhesives, 1993, 13, 219-235.	1.4	38
100	Functionally Graded Adhesively Bonded Joints. , 0, , 57-83.		4
101	Numerical Investigations on the Ballistic Performance of Honeycomb Sandwich Structures Reinforced by Functionally Graded Plates. , 0, , .		0
102	Fonksiyonel Olarak KademelendirilmiÄ ModÄ¼llÄ¼ YapÄ±Ä±tÄ±rÄ±cÄ± BaÄ±lantÄ±larÄ±n IsÄ± Gerilme Analizi. Journal of Polytechnic, 0, , .	0.4	0