

Serkan Dag

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

998
citations

20
h-index

30
g-index

52
ext. papers

1,097
ext. citations

2.8
avg. IF

4.92
L-index

#	Paper	IF	Citations
48	Stresses in multi-layer coatings in Hertzian contact with a moving circular punch. <i>Tribology International</i> , 2022 , 107565	4.9	2
47	Forced vibrations of functionally graded annular and circular plates by domain-boundary element method. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020 , 100, e201900048	1	3
46	Domain-boundary element method for forced vibrations of fiber-reinforced laminated beams. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2020 , 21, 141-158 ^{0.7}	0.7	0
45	Moving contact problems involving a rigid punch and a functionally graded coating. <i>Applied Mathematical Modelling</i> , 2020 , 81, 855-886	4.5	9
44	Oblique surface cracking and crack closure in an orthotropic medium under contact loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 109, 102729	3.7	6
43	Mechanics of dynamic contact of coated substrate and rigid cylindrical ended punch. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 2225-2240	1.6	10
42	Solution of the dynamic frictional contact problem between a functionally graded coating and a moving cylindrical punch. <i>International Journal of Solids and Structures</i> , 2019 , 161, 267-281	3.1	29
41	Dynamic frictional contact problems involving elastic coatings. <i>Tribology International</i> , 2018 , 124, 70-92	4.9	19
40	Thermal effect on bending, buckling and free vibration of functionally graded rectangular micro-plates possessing a variable length scale parameter. <i>Microsystem Technologies</i> , 2018 , 24, 3549-3572 ^{1.7}	1.7	8
39	Domain-boundary element method for elastodynamics of functionally graded Timoshenko beams. <i>Computers and Structures</i> , 2018 , 195, 113-125	4.5	16
38	Hyperbolic heat conduction based weight function method for thermal fracture of functionally graded hollow cylinders. <i>International Journal of Pressure Vessels and Piping</i> , 2018 , 165, 249-262	2.4	9
37	Contact mechanics problem between an orthotropic graded coating and a rigid punch of an arbitrary profile. <i>International Journal of Mechanical Sciences</i> , 2018 , 135, 541-554	5.5	28
36	Subsurface stresses in graded coatings subjected to frictional contact with heat generation. <i>Journal of Thermal Stresses</i> , 2017 , 40, 517-534	2.2	21
35	Weight function method for transient thermomechanical fracture analysis of a functionally graded hollow cylinder possessing a circumferential crack. <i>Journal of Thermal Stresses</i> , 2016 , 39, 1182-1199	2.2	3
34	Bending and free vibrations of functionally graded annular and circular micro-plates under thermal loading. <i>Composite Structures</i> , 2016 , 137, 196-207	5.3	52
33	Surface cracking in an orthotropic medium subjected to frictional contact. <i>International Journal of Solids and Structures</i> , 2016 , 90, 1-11	3.1	6
32	Consideration of spatial variation of the friction coefficient in contact mechanics analysis of laterally graded materials. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2016 , 96, 121-136 ¹	1	13

31	Consideration of spatial variation of the length scale parameter in static and dynamic analyses of functionally graded annular and circular micro-plates. <i>Composites Part B: Engineering</i> , 2015 , 78, 338-348	10	33
30	Analysis of frictional contacts with heat generation considering temperature dependent properties. <i>International Journal of Mechanical Sciences</i> , 2015 , 101-102, 59-69	5.5	8
29	Production of graded porous polyamide structures and polyamide-epoxy composites via selective laser sintering. <i>Journal of Reinforced Plastics and Composites</i> , 2014 , 33, 1017-1036	2.9	16
28	Static and free vibration analyses of small-scale functionally graded beams possessing a variable length scale parameter using different beam theories. <i>European Journal of Mechanics, A/Solids</i> , 2014 , 46, 1-11	3.7	57
27	Computational Methods for Inclined Cracks in Orthotropic Functionally Graded Materials Under Thermal Stresses. <i>Journal of Thermal Stresses</i> , 2013 , 36, 1001-1026	2.2	7
26	Frictional Hertzian contact between a laterally graded elastic medium and a rigid circular stamp. <i>Acta Mechanica</i> , 2013 , 224, 1773-1789	2.1	21
25	Hygrothermal Fracture Analysis of Orthotropic Functionally Graded Materials Using Jk-Integral-Based Methods. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-11	1.1	2
24	A surface crack in a graded coating subjected to sliding frictional contact. <i>Engineering Fracture Mechanics</i> , 2012 , 80, 72-91	4.2	20
23	Three dimensional computational analysis of fatigue crack propagation in functionally graded materials. <i>Computational Materials Science</i> , 2012 , 52, 246-252	3.2	10
22	Hygrothermal Fracture Analysis of Orthotropic Materials Using J k -Integral. <i>Journal of Thermal Stresses</i> , 2012 , 35, 596-613	2.2	4
21	Computation of thermal fracture parameters for orthotropic functionally graded materials using Jk-integral. <i>International Journal of Solids and Structures</i> , 2010 , 47, 3480-3488	3.1	26
20	Mechanical Modeling of Thin Films Bonded to Functionally Graded Materials. <i>Materials Science Forum</i> , 2009 , 631-632, 333-338	0.4	1
19	Three Dimensional Modeling of Inclined Surface Cracks in FGM Coatings. <i>Materials Science Forum</i> , 2009 , 631-632, 109-114	0.4	3
18	Manufacturing of Functionally Graded Porous Products by Selective Laser Sintering. <i>Materials Science Forum</i> , 2009 , 631-632, 253-258	0.4	16
17	Sliding frictional contact between a rigid punch and a laterally graded elastic medium. <i>International Journal of Solids and Structures</i> , 2009 , 46, 4038-4053	3.1	58
16	Computation of Thermal Fracture Parameters for Inclined Cracks in Functionally Graded Materials Using J k -Integral. <i>Journal of Thermal Stresses</i> , 2009 , 32, 530-556	2.2	9
15	Mixed-Mode Fracture Analysis of Orthotropic Functionally Graded Material Coatings Using Analytical and Computational Methods. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008 , 75,	2.7	31
14	Three Dimensional Analysis of Periodic Cracking in FGM Coatings under Thermal Stresses. <i>AIP Conference Proceedings</i> , 2008 ,	0	2

13	Mixed-mode fracture analysis of orthotropic functionally graded materials under mechanical and thermal loads. <i>International Journal of Solids and Structures</i> , 2007 , 44, 7816-7840	3.1	56
12	Mixed-Mode Fracture Analysis of Functionally Graded Materials Under Thermal Stresses: A New Approach Using J k -Integral. <i>Journal of Thermal Stresses</i> , 2007 , 30, 269-296	2.2	23
11	A surface crack in a graded coating bonded to a homogeneous substrate under general loading conditions. <i>Journal of Mechanics of Materials and Structures</i> , 2007 , 2, 1331-1353	1.2	2
10	Thermal fracture analysis of orthotropic functionally graded materials using an equivalent domain integral approach. <i>Engineering Fracture Mechanics</i> , 2006 , 73, 2802-2828	4.2	65
9	Three dimensional fracture analysis of FGM coatings under thermomechanical loading. <i>International Journal of Fracture</i> , 2005 , 132, 371-397	2.3	72
8	Three Dimensional Fracture Analysis of FGM Coatings. <i>Materials Science Forum</i> , 2005 , 492-493, 373-378	0.4	4
7	Interface crack problems in graded orthotropic media: Analytical and computational approaches. <i>International Journal of Fracture</i> , 2004 , 130, 471-496	2.3	37
6	A surface crack in a graded medium loaded by a sliding rigid stamp. <i>Engineering Fracture Mechanics</i> , 2002 , 69, 1729-1751	4.2	69
5	A Surface Crack in a Graded Medium Under General Loading Conditions. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2002 , 69, 580-588	2.7	39
4	Surface Cracking of Graded Materials Due to Sliding Contact. <i>The Proceedings of Conference of Kyushu Branch</i> , 2002 , 2002.55, 1-4	0	
3	CIRCUMFERENTIAL CRACK PROBLEM FOR AN FGM CYLINDER UNDER THERMAL STRESSES. <i>Journal of Thermal Stresses</i> , 1999 , 22, 659-687	2.2	26
2	Crack problem for a functionally graded layer on an elastic foundation. <i>International Journal of Fracture</i> , 1998 , 94, 63-77	2.3	46
1	Multi-layer model for moving contact problems of functionally graded coatings with general variations in physical properties. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 146442072210921	1.3	