

# Bora Yildirim

## List of Publications by Year in descending order

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41  
papers

695  
citations

687363

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h-index

580821

25  
g-index

41  
all docs

41  
docs citations

41  
times ranked

331  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three dimensional fracture analysis of FGM coatings under thermomechanical loading. International Journal of Fracture, 2005, 132, 371-397.	2.2	81
2	Mixed-mode fracture analysis of orthotropic functionally graded materials under mechanical and thermal loads. International Journal of Solids and Structures, 2007, 44, 7816-7840.	2.7	67
3	Sliding frictional contact between a rigid punch and a laterally graded elastic medium. International Journal of Solids and Structures, 2009, 46, 4038-4053.	2.7	66
4	On the analytical and finite element solution of plane contact problem of a rigid cylindrical punch sliding over a functionally graded orthotropic medium. International Journal of Mechanical Sciences, 2017, 120, 12-29.	6.7	49
5	Interface crack problems in graded orthotropic media: Analytical and computational approaches. International Journal of Fracture, 2004, 130, 471-496.	2.2	40
6	EDGE CRACK PROBLEMS IN HOMOGENOUS AND FUNCTIONALLY GRADED MATERIAL THERMAL BARRIER COATINGS UNDER UNIFORM THERMAL LOADING. Journal of Thermal Stresses, 2004, 27, 311-329.	2.0	40
7	Frictional receding contact problem for a graded bilayer system indented by a rigid punch. International Journal of Mechanical Sciences, 2018, 141, 127-142.	6.7	38
8	Computation of thermal fracture parameters for orthotropic functionally graded materials using Jk-integral. International Journal of Solids and Structures, 2010, 47, 3480-3488.	2.7	32
9	Performance analysis of TRISO coated fuel particles with kernel migration. Journal of Nuclear Materials, 2008, 374, 168-177.	2.7	27
10	Subsurface stresses in graded coatings subjected to frictional contact with heat generation. Journal of Thermal Stresses, 2017, 40, 517-534.	2.0	27
11	An Equivalent Domain Integral Method for Fracture Analysis of Functionally Graded Materials Under Thermal Stresses. Journal of Thermal Stresses, 2006, 29, 371-397.	2.0	26
12	Frictional Hertzian contact between a laterally graded elastic medium and a rigid circular stamp. Acta Mechanica, 2013, 224, 1773-1789.	2.1	24
13	Analysis of frictional contacts with heat generation considering temperature dependent properties. International Journal of Mechanical Sciences, 2015, 101-102, 59-69.	6.7	14
14	Fabrication, Morphology Analysis, and Mechanical Properties of Ti Foams Manufactured Using the Space Holder Method for Bone Substitute Materials. Metals, 2019, 9, 340.	2.3	14
15	Three dimensional computational analysis of fatigue crack propagation in functionally graded materials. Computational Materials Science, 2012, 52, 246-252.	3.0	13
16	Computation of Thermal Fracture Parameters for Inclined Cracks in Functionally Graded Materials Using Jk-Integral. Journal of Thermal Stresses, 2009, 32, 530-556.	2.0	12
17	Analytical and finite element solution of the sliding frictional contact problem for a homogeneous orthotropic coating-isotropic substrate system. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2019, 99, e201800117.	1.6	12
18	Computational Methods for Inclined Cracks in Orthotropic Functionally Graded Materials Under Thermal Stresses. Journal of Thermal Stresses, 2013, 36, 1001-1026.	2.0	11

#	ARTICLE	IF	CITATIONS
19	Double frictional receding contact problem for an orthotropic layer loaded by normal and tangential forces. <i>Meccanica</i> , 2019, 54, 2183-2206.	2.0	11
20	Periodic crack problem for a functionally graded half-plane an analytic solution. <i>International Journal of Solids and Structures</i> , 2011, 48, 3020-3031.	2.7	10
21	Sliding frictional contact analysis of a monoclinic coating/isotropic substrate system. <i>Mechanics of Materials</i> , 2019, 137, 103132.	3.2	9
22	Delamination of Compressively Stressed Orthotropic Functionally Graded Material Coatings Under Thermal Loading. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008, 75, .	2.2	8
23	A brief review on the mechanical behavior of nonwoven fabrics. <i>Journal of Engineered Fibers and Fabrics</i> , 2020, 15, 155892502097019.	1.0	8
24	Numerical and empirical modeling of peak deceleration and stress analysis of polyurethane elastomer under impact loading test. <i>Polymer Testing</i> , 2020, 89, 106594.	4.8	8
25	Frictional receding contact problem of a functionally graded layer resting on a homogeneous coated half-plane. <i>Archive of Applied Mechanics</i> , 2020, 90, 2113-2131.	2.2	8
26	On the plane frictional contact problem of a homogeneous orthotropic layer loaded by a rigid cylindrical stamp. <i>Archive of Applied Mechanics</i> , 2019, 89, 1403-1419.	2.2	7
27	Hygrothermal Fracture Analysis of Orthotropic Materials Using $J$ -Integral. <i>Journal of Thermal Stresses</i> , 2012, 35, 596-613.	2.0	6
28	Investigation of stress distributions between a frictional rigid cylinder and laminated glass fiber composites. <i>Acta Mechanica</i> , 2021, 232, 4379-4403.	2.1	5
29	Buckling of an orthotropic graded coating with an embedded crack bonded to a homogeneous substrate. <i>International Journal of Solids and Structures</i> , 2009, 46, 1890-1900.	2.7	4
30	The effect of orthotropic material gradation on the plane sliding frictional contact mechanics problem. <i>Journal of Strain Analysis for Engineering Design</i> , 2019, 54, 254-275.	1.8	4
31	Residual Stresses and Distortion in Boiler Tube Panels With Welded Overlay Cladding. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2004, 126, 426-431.	0.6	3
32	Three Dimensional Modeling of Inclined Surface Cracks in FGM Coatings. <i>Materials Science Forum</i> , 0, 631-632, 109-114.	0.3	3
33	Three Dimensional Analysis of Periodic Cracking in FGM Coatings under Thermal Stresses. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
34	Adaptive Control of Nonlinear Spur Gear Dynamics with Parametric Disturbance Rejection. , 2019, , .		2
35	Free Vibration Analysis of a Functionally Graded Micro-Beam with Tapered Cross Section. <i>Gazi Üniversitesi Fen Bilimleri Dergisi</i> , 0, , .	0.6	2
36	Failure Prediction of Composite Open Hole Tensile Test Specimens Using Bond Based Peridynamic Theory. <i>Procedia Structural Integrity</i> , 2020, 28, 2055-2064.	0.8	2

#	ARTICLE	IF	CITATIONS
37	Fatigue Crack Growth Analysis Models for Functionally Graded Materials. AIP Conference Proceedings, 2008, , .	0.4	0
38	Design of a vibration-free platform: Stabilization of a beam mounted on bicycle model of a car. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 4113-4127.	2.1	0
39	SoÄyuk ekstrÃ¼zyon prosesinin termo-mekanik baÄyÃ¼± sonlu elemanlar analizi ile incelenmesi. Journal of the Faculty of Engineering and Architecture of Gazi University, 2019, 35, 323-336.	0.8	0
40	Interface Cracking of FGM Coatings under Uniform Thermal Loading. , 2019, , 388-396.		0
41	Mxed-Mode Fracture Analyss of Orthotropic Functionally Graded Materials. , 2006, , 1177-1178.		0