Vera Petrova

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6765009/publications.pdf

Version: 2024-02-01

24	283	933447 10	888059 17
papers	citations	h-index	g-index

25	25	25	155
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Survey of Macro-Microcrack Interaction Problems. Applied Mechanics Reviews, 2000, 53, 117-146.	10.1	48
2	Theoretical modeling and analysis of thermal fracture of semi-infinite functionally graded materials with edge cracks. Meccanica, 2014, 49, 2603-2615.	2.0	27
3	Thermal fracture of a functionally graded/homogeneous bimaterial with system of cracks. Theoretical and Applied Fracture Mechanics, 2011, 55, 148-157.	4.7	26
4	Mathematical modelling and thermal stress intensity factors evaluation for an interface crack in the presence of a system of cracks in functionally graded/homogeneous bimaterials. Computational Materials Science, 2012, 52, 171-177.	3.0	25
5	On Macrocrackâ€“Microdefect Interaction. International Applied Mechanics, 2002, 38, 1157-1177.	0.6	21
6	FGM/homogeneous bimaterials with systems of cracks under thermo-mechanical loading: Analysis by fracture criteria. Engineering Fracture Mechanics, 2014, 130, 12-20.	4.3	20
7	Interaction of a system of cracks with an interface crack in functionally graded/homogeneous bimaterials under thermo-mechanical loading. Computational Materials Science, 2012, 64, 229-233.	3.0	16
8	A theoretical model for the study of thermal fracture of functionally graded thermal barrier coatings with a system of edge and internal cracks. Theoretical and Applied Fracture Mechanics, 2020, 108, 102605.	4.7	13
9	Plane problem of macro-microcrack interaction taking account of crack closure. Engineering Fracture Mechanics, 1996, 55, 957-967.	4.3	12
10	Theoretical analysis of Mode II cracks in a Compact Shear Specimen. Computational Materials Science, 2012, 64, 248-252.	3.0	12
11	Crack â€“ interface crack interactions in functionally graded/homogeneous composite bimaterials subjected to a heat flux. Mechanics of Composite Materials, 2011, 47, 125-136.	1.4	11
12	Revisit of compact Mode II crack specimen: Analysis and fracture interpretation. Theoretical and Applied Fracture Mechanics, 2012, 59, 41-48.	4.7	10
13	Thermal crack problems for a bimaterial with an interface crack and internal defects subjected to a heat source. International Journal of Fracture, 2004, 128, 49-63.	2.2	7
14	Thermal fracture of functionally graded thermal barrier coatings with pre-existing edge cracks and multiple internal cracks imitating a curved interface. Continuum Mechanics and Thermodynamics, 2021, 33, 1487-1503.	2.2	7
15	Crack closure effects in thermal fracture of functionally graded/homogeneous bimaterials with systems of cracks. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2015, 95, 1027-1036.	1.6	6
16	Revisit of antiplane shear problems for an interface crack. Engineering Fracture Mechanics, 2019, 216, 106524.	4.3	6
17	Interaction between a main crack and inclusions of a given orientation. Mechanics of Composite Materials, 1988, 24, 288-294.	1.4	4
18	Interaction of microcracks with a macrocrack yielded in a narrow strip. Theoretical and Applied Fracture Mechanics, 2004, 41, 291-299.	4.7	4

#	Article	IF	Citations
19	Analysis of interacting cracks in functionally graded thermal barrier coatings. Procedia Structural Integrity, 2020, 28, 608-618.	0.8	4
20	Modelling of Thermal Fracture of Functionally Graded/Homogeneous Bimaterial Structures under Thermo-Mechanical Loading. Key Engineering Materials, 0, 592-593, 145-148.	0.4	2
21	Main crack in the field of microdefects in transverse shear conditions. Materials Science, 1993, 29, 322-331.	0.9	1
22	Interaction of Cracks in an Elastic Two-Component Material Under Anti-Plane Shear Loading. Vestnik Volgogradskogo Gosudarstvennogo Universiteta Serija 1 Mathematica Physica, 2016, , 53-62.	0.1	1
23	Shear fracture of the main crack in the presence of rigid inclusions and an accompanying crack closure. Mechanics of Composite Materials, 1995, 30, 440-447.	1.4	0
24	A theoretical model for the study of thermal fracture of functionally graded thermal barrier coatings. Procedia Structural Integrity, 2019, 23, 407-412.	0.8	0