

# Vera Petrova

## List of Publications by Year in descending order

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24  
papers

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citations

933447

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888059

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docs citations

25  
times ranked

155  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal fracture of functionally graded thermal barrier coatings with pre-existing edge cracks and multiple internal cracks imitating a curved interface. <i>Continuum Mechanics and Thermodynamics</i> , 2021, 33, 1487-1503.	2.2	7
2	A theoretical model for the study of thermal fracture of functionally graded thermal barrier coatings with a system of edge and internal cracks. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 108, 102605.	4.7	13
3	Analysis of interacting cracks in functionally graded thermal barrier coatings. <i>Procedia Structural Integrity</i> , 2020, 28, 608-618.	0.8	4
4	Revisit of antiplane shear problems for an interface crack. <i>Engineering Fracture Mechanics</i> , 2019, 216, 106524.	4.3	6
5	A theoretical model for the study of thermal fracture of functionally graded thermal barrier coatings. <i>Procedia Structural Integrity</i> , 2019, 23, 407-412.	0.8	0
6	Interaction of Cracks in an Elastic Two-Component Material Under Anti-Plane Shear Loading. <i>Vestnik Volgogradskogo Gosudarstvennogo Universiteta Serija 1 Mathematica Physica</i> , 2016, , 53-62.	0.1	1
7	Crack closure effects in thermal fracture of functionally graded/homogeneous bimetals with systems of cracks. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2015, 95, 1027-1036.	1.6	6
8	FGM/homogeneous bimetals with systems of cracks under thermo-mechanical loading: Analysis by fracture criteria. <i>Engineering Fracture Mechanics</i> , 2014, 130, 12-20.	4.3	20
9	Theoretical modeling and analysis of thermal fracture of semi-infinite functionally graded materials with edge cracks. <i>Meccanica</i> , 2014, 49, 2603-2615.	2.0	27
10	Mathematical modelling and thermal stress intensity factors evaluation for an interface crack in the presence of a system of cracks in functionally graded/homogeneous bimetals. <i>Computational Materials Science</i> , 2012, 52, 171-177.	3.0	25
11	Theoretical analysis of Mode II cracks in a Compact Shear Specimen. <i>Computational Materials Science</i> , 2012, 64, 248-252.	3.0	12
12	Interaction of a system of cracks with an interface crack in functionally graded/homogeneous bimetals under thermo-mechanical loading. <i>Computational Materials Science</i> , 2012, 64, 229-233.	3.0	16
13	Revisit of compact Mode II crack specimen: Analysis and fracture interpretation. <i>Theoretical and Applied Fracture Mechanics</i> , 2012, 59, 41-48.	4.7	10
14	Crack " interface crack interactions in functionally graded/homogeneous composite bimetals subjected to a heat flux. <i>Mechanics of Composite Materials</i> , 2011, 47, 125-136.	1.4	11
15	Thermal fracture of a functionally graded/homogeneous bimaterial with system of cracks. <i>Theoretical and Applied Fracture Mechanics</i> , 2011, 55, 148-157.	4.7	26
16	Thermal crack problems for a bimaterial with an interface crack and internal defects subjected to a heat source. <i>International Journal of Fracture</i> , 2004, 128, 49-63.	2.2	7
17	Interaction of microcracks with a macrocrack yielded in a narrow strip. <i>Theoretical and Applied Fracture Mechanics</i> , 2004, 41, 291-299.	4.7	4
18	On Macrocrack "Microdefect Interaction. <i>International Applied Mechanics</i> , 2002, 38, 1157-1177.	0.6	21

#	ARTICLE	IF	CITATIONS
19	A Survey of Macro-Microcrack Interaction Problems. Applied Mechanics Reviews, 2000, 53, 117-146.	10.1	48
20	Plane problem of macro-microcrack interaction taking account of crack closure. Engineering Fracture Mechanics, 1996, 55, 957-967.	4.3	12
21	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
22	Main crack in the field of microdefects in transverse shear conditions. Materials Science, 1993, 29, 322-331.	0.9	1
23	Interaction between a main crack and inclusions of a given orientation. Mechanics of Composite Materials, 1988, 24, 288-294.	1.4	4
24	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