Tsviatko V Rangelov

List of Publications by Year
in descending order

42 papers	451 citations	759233 12 h-index	752698 20 g-index
49 all docs	49 docs citations	49 times ranked	195 citing authors

#	Article	IF	Citations
1	Wave scattering by cracks in inhomogeneous continua using BIEM. International Journal of Solids and Structures, 2004, 41, 3905-3927.	2.7	38
2	Free-field wave solutions in a half-plane exhibiting a special-type of continuous inhomogeneity. Wave Motion, 2007, 44, 304-321.	2.0	23
3	Dynamic fracture behavior of functionally graded magnetoelectroelastic solids by BIEM. International Journal of Solids and Structures, 2011, 48, 2987-2999.	2.7	23
4	Non-homogeneous elastic waves in soils: Notes on the vector decomposition technique. Soil Dynamics and Earthquake Engineering, 2006, 26, 952-959.	3.8	22
5	Dynamic fracture analysis of a smoothly inhomogeneous plane containing defects by BEM. Engineering Analysis With Boundary Elements, 2012, 36, 727-737.	3.7	19
6	Mechanical models and numerical simulations in nanomechanics: A review across the scales. Engineering Analysis With Boundary Elements, 2021, 128, 149-170.	3.7	19
7	Transient seismic wave propagation in a multilayered cracked geological region. Journal of Sound and Vibration, 2004, 273, 1-32.	3.9	17
8	Point force and dipole solutions in the inhomogeneous half-plane under time-harmonic conditions. Mechanics Research Communications, 2014, 56, 90-97.	1.8	17
9	Time-harmonic crack problems in functionally graded piezoelectric solids via BIEM. Engineering Fracture Mechanics, 2010, 77, 1101-1115.	4.3	16
10	Anti-plane dynamic hole–crack interaction in a functionally graded piezoelectric media. Archive of Applied Mechanics, 2012, 82, 97-110.	2.2	15
11	BIEM analysis of dynamically loaded anti-plane cracks in graded piezoelectric finite solids. International Journal of Solids and Structures, 2010, 47, 3150-3165.	2.7	14
12	Seismic motions in a non-homogeneous soil deposit with tunnels by a hybrid computational technique. Earthquake and Structures, 2013, 5, 161-205.	1.0	14
13	Conformal mapping methods for variable parameter elastodynamics. Wave Motion, 2002, 36, 185-202.	2.0	12
14	SH-wave scattering in the orthotropic half-plane weakened by cavities using BIEM. Acta Acustica United With Acustica, 2014, 100, 266-276.	0.8	12
15	Time-harmonic elastodynamic Green's function for the half-plane modeled by a restricted inhomogeneity of quadratic type. Journal of Mechanics of Materials and Structures, 2010, 5, 909-924.	0.6	12
16	Site effects due to wave path inhomogeneity by BEM. Engineering Analysis With Boundary Elements, 2008, 32, 1025-1036.	3.7	11
17	On the influence of electric boundary conditions on dynamic SIFs in piezoelectric materials. Archive of Applied Mechanics, 2010, 80, 985-996.	2.2	11
18	Dynamic fracture behavior of a nanocrack in a piezoelectric plane. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2017, 97, 1393-1405.	1.6	10

#	Article	IF	Citations
19	Wave Scattering by Cracks at Macro- and Nano-Scale in Anisotropic Plane by Boundary Integral Equation Method. Journal of Theoretical and Applied Mechanics (Bulgaria), 2016, 46, 19-35.	0.0	7
20	Dynamic fracture of a nano-cracked finite exponentially inhomogeneous piezoelectric solid. Archive of Applied Mechanics, 2019, 89, 1317-1332.	2.2	7
21	BIEM analysis of a graded nano‐cracked elastic half‐plane under time‐harmonic waves. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e202000021.	1.6	7
22	The non-homogeneous biharmonic plate equation: fundamental solutions. International Journal of Solids and Structures, 2003, 40, 5753-5767.	2.7	6
23	Dynamic fracture behavior of nanocracked graded magnetoelectroelastic solid. Archive of Applied Mechanics, 2021, 91, 1495-1508.	2.2	6
24	Dynamic interaction of cracks in piezoelectric and anisotropic solids: A non-hypersingular BIEM approach. Theoretical and Applied Mechanics, 2008, 35, 73-91.	0.3	6
25	Dynamic Response of a Cracked Viscoelastic Anisotropic Plane Using Boundary Elements and Fractional Derivatives. Journal of Theoretical and Applied Mechanics (Bulgaria), 2018, 48, 24-49.	0.0	6
26	Wave propagation in a restricted class of orthotropic inhomogeneous half-planes. Acta Mechanica, 2010, 210, 169-182.	2.1	5
27	TIME‐HARMONIC BEHAVIOUR OF CRACKED PIEZOELECTRIC SOLID BY BOUNDARY INTEGRAL EQUATION METHOD. Journal of Theoretical and Applied Mechanics (Bulgaria), 2014, 44, 55-78.	0.0	4
28	Sharp Hardy Inequalities in Star-shaped Domains with Double Singular Kernels. Mediterranean Journal of Mathematics, 2017, 14, 1.	0.8	3
29	Dynamic fracture of two nano-cracks in graded elastic half-plane. AIP Conference Proceedings, 2021, , .	0.4	3
30	Note on Sharp Hardy-Type Inequality. Mediterranean Journal of Mathematics, 2014, 11, 31-44.	0.8	2
31	State-of-the-Art for the BIEM. Solid Mechanics and Its Applications, 2017, , 9-52.	0.2	2
32	WAVE SCATTERING AND STRESS CONCENTRATION IN A MAGNETO-ELECTRO-ELASTIC PLANE WITH A NANO-CRACK BY BOUNDARY INTEGRAL EQUATIONS. Journal of Theoretical and Applied Mechanics (Bulgaria), 2019, 49, .	0.0	2
33	Estimates from below for the first eigenvalue of the p‐Laplacian. AIP Conference Proceedings, 2019, , .	0.4	1
34	SH-Wave scattering by two nanocracks in a graded PEM plane. AIP Conference Proceedings, 2022, , .	0.4	1
35	Dynamic response of a graded cracked half-plane with embedded sources. Acta Mechanica, 2022, 233, 3433-3452.	2.1	1
36	Inverse Scattering by Line Cracks in Elastic Solid. Inverse Problems in Science and Engineering, 2003, 11, 141-155.	0.5	0

#	Article	IF	Citations
37	Hardy-type inequality with double singular kernels. Open Mathematics, 2013, 11, .	1.0	0
38	Sharp Hardy inequalities in an exterior of a ball. AIP Conference Proceedings, 2021, , .	0.4	0
39	Anti-plane Dynamic Crackâ€"Hole Interaction in a Functionally Graded Piezoelectric Medium. Solid Mechanics and Its Applications, 2014, , 233-245.	0.2	0
40	In-plane Crack Problems in Functionally Graded Piezoelectric Solids. Solid Mechanics and Its Applications, 2014, , 149-163.	0.2	0
41	Numerical Solution of Integro-Differential Equations Modelling the Dynamic Behavior of a Nano-Cracked Viscoelastic Half-Plane. Cybernetics and Information Technologies, 2020, 20, 105-115.	1.1	0
42	Applications of Hardy inequalities for some singular parabolic equations. AIP Conference Proceedings, 2022, , .	0.4	0