# Sofia G Mogilevskaya

List of Publications by Year
in descending order



| 64 | 1,710 | 361413 20 | 289244 40 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 64 | 64 | 64 | 461 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Elastic disk with isoperimetric Cosserat coating. European Journal of Mechanics, A/Solids, 2023, 100, 104568. | 3.7 | 1 |
| 2 | Analytical solution for doubly-periodic harmonic problems with circular inhomogeneities and superconducting or membrane-type interfaces. European Journal of Mechanics, A/Solids, 2023, 100, 104556. | 3.7 | 0 |
| 3 | Anisotropic imperfect interface in elastic particulate composite with initial stress. Mathematics and Mechanics of Solids, 2022, 27, 872-895. | 2.4 | 4 |
| 4 | On modeling of elastic interface layers in particle composites. International Journal of Engineering Science, 2022, 176, 103697. | 5.0 | 10 |
| 5 | On the BÃ¶vikâ€“Benveniste methodology and related approaches for modelling thin layers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, . | 3.4 | 4 |
| 6 | Numerical study of the Gurtinâ€“Murdoch model for curved interfaces : benchmark solutions and analysis of curvature-related effects. Journal of Mechanics of Materials and Structures, 2021, 16, 23-48. | 0.6 | 3 |
| 7 | The use of the Gurtin-Murdoch theory for modeling mechanical processes in composites with two-dimensional reinforcements. Composites Science and Technology, 2021, 210, 108751. | 7.8 | 14 |
| 8 | Fiber- and Particle-Reinforced Composite Materials With the Gurtinâ€“Murdoch and Steigmannâ€“Ogden Surface Energy Endowed Interfaces. Applied Mechanics Reviews, 2021, 73, . | 10.1 | 33 |
| 9 | BEM-based second-order imperfect interface modeling of potential problems with thin layers. International Journal of Solids and Structures, 2021, 230-231, 111155. | 2.7 | 4 |
| 10 | Analysis of the Antiplane Problem with an Embedded Zero Thickness Layer Described by the Gurtin-Murdoch Model. Journal of Elasticity, 2020, 140, 171-195. | 1.9 | 19 |
| 11 | Displacements representations for the problems with spherical and circular material surfaces. Quarterly Journal of Mechanics and Applied Mathematics, 2019, 72, 449-471. | 1.3 | 22 |
| 12 | Maxwellâ€™s methodology of estimating effective properties: Alive and well. International Journal of Engineering Science, 2019, 140, 35-88. | 5.0 | 66 |
| 13 | Consistent discretization of higher-order interface models for thin layers and elastic material surfaces, enabled by isogeometric cut-cell methods. Computer Methods in Applied Mechanics and Engineering, 2019, 350, 245-267. | 6.6 | 11 |
| 14 | On the elastic far-field response of a two-dimensional coated circular inhomogeneity: Analysis and applications. International Journal of Solids and Structures, 2018, 130-131, 199-210. | 2.7 | 12 |
| 15 | Circular inhomogeneity with Steigmannâ€“Ogden interface: Local fields, neutrality, and Maxwellâ€™s type approximation formula. International Journal of Solids and Structures, 2018, 135, 85-98. | 2.7 | 83 |
| 16 | On Spherical Inhomogeneity With Steigmannâ€“Ogden Interface. Journal of Applied Mechanics, Transactions ASME, 2018, 85, . | 2.2 | 44 |
| 17 | A lined hole in a viscoelastic rock under biaxial far-field stress. International Journal of Rock Mechanics and Minings Sciences, 2018, 106, 350-363. | 5.8 | 15 |
| 18 | Local fields and overall transverse properties of unidirectional composite materials with multiple nanofibers and Steigmannâ€“Ogden interfaces. International Journal of Solids and Structures, 2018, 147, 166-182. | 2.7 | 49 |

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|---|---|---|---|
| 19 | Three-dimensional BEM analysis of stress state near a crack-borehole system. Engineering Analysis With Boundary Elements, 2016, 73, 133-143. | 3.7 | 2 |
| 20 | On convergence of the generalized Maxwell scheme: conductivity of composites containing cubic arrays of spherical particles. Philosophical Magazine Letters, 2016, 96, 392-401. | 1.2 | 8 |
| 21 | On â€˜strangeâ€™ properties of some symmetric inhomogeneities. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150157. | 2.1 | 4 |
| 22 | Boundary element analysis of non-planar three-dimensional cracks using complex variables. International Journal of Rock Mechanics and Minings Sciences, 2015, 76, 44-54. | 5.8 | 9 |
| 23 | The shape of Maxwell's equivalent inhomogeneity and â€˜strangeâ€™ properties of regular polygons and other symmetric domains. Quarterly Journal of Mechanics and Applied Mathematics, 2015, , hbv012. | 1.3 | 0 |
| 24 | Evaluation of some approximate estimates for the effective tetragonal elastic moduli of two-phase fiber-reinforced composites. Journal of Composite Materials, 2014, 48, 2349-2362. | 2.4 | 7 |
| 25 | Lost in translation: Crack problems in different languages. International Journal of Solids and Structures, 2014, 51, 4492-4503. | 2.7 | 12 |
| 26 | The use of complex integral representations for analytical evaluation of three-dimensional BEM integrals--potential and elasticity problems. Quarterly Journal of Mechanics and Applied Mathematics, 2014, 67, 505-523. | 1.3 | 17 |
| 27 | Combining Maxwellâ€™s methodology with the BEM for evaluating the two-dimensional effective properties of composite and micro-cracked materials. Computational Mechanics, 2013, 51, 377-389. | 4.0 | 16 |
| 28 | Complex variables boundary element analysis of three-dimensional crack problems. Engineering Analysis With Boundary Elements, 2013, 37, 1532-1544. | 3.7 | 10 |
| 29 | Elastic fields and effective moduli of particulate nanocomposites with the Gurtinâ€“Murdoch model of interfaces. International Journal of Solids and Structures, 2013, 50, 1141-1153. | 2.7 | 48 |
| 30 | Evaluation of the effective elastic moduli of tetragonal fiber-reinforced composites based on Maxwellâ€™s concept of equivalent inhomogeneity. International Journal of Solids and Structures, 2013, 50, 4161-4172. | 2.7 | 15 |
| 31 | Evaluation of the effective elastic moduli of particulate composites based on Maxwellâ€™s concept of equivalent inhomogeneity: microstructure-induced anisotropy. Journal of Mechanics of Materials and Structures, 2013, 8, 283-303. | 0.6 | 26 |
| 32 | On Maxwell's concept of equivalent inhomogeneity: When do the interactions matter?. Journal of the Mechanics and Physics of Solids, 2012, 60, 391-417. | 4.8 | 42 |
| 33 | Elastic interaction of spherical nanoinhomogeneities with Gurtinâ€“Murdoch type interfaces. Journal of the Mechanics and Physics of Solids, 2011, 59, 1702-1716. | 4.8 | 69 |
| 34 | Evaluation of effective transverse mechanical properties of transversely isotropic viscoelastic composite materials. Journal of Composite Materials, 2011, 45, 2641-2658. | 2.4 | 17 |
| 35 | Green Function for the Problem of a Plane Containing a Circular Hole With Surface Effects. Journal of Applied Mechanics, Transactions ASME, 2011, 78, . | 2.2 | 12 |
| 36 | The effects of surface elasticity and surface tension on the transverse overall elastic behavior of unidirectional nano-composites. Composites Science and Technology, 2010, 70, 427-434. | 7.8 | 85 |

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|---|---|---|---|
| 37 | Novel approach for measuring the effective shear modulus of porous materials. Journal of Materials Science, 2010, 45, 936-945. | 3.7 | 7 |
| 38 | Equivalent inhomogeneity method for evaluating the effective elastic properties of unidirectional multi-phase composites with surface/interface effects. International Journal of Solids and Structures, 2010, 47, 407-418. | 2.7 | 91 |
| 39 | Transient heat conduction in a medium with multiple spherical cavities. International Journal for Numerical Methods in Engineering, 2009, 77, 751-775. | 2.8 | 17 |
| 40 | Transient heat conduction in a medium with multiple circular cavities and inhomogeneities. International Journal for Numerical Methods in Engineering, 2009, 80, 1437-1462. | 2.8 | 2 |
| 41 | Interaction between a crack and a circular inhomogeneity with interface stiffness and tension. International Journal of Fracture, 2009, 159, 191-207. | 2.2 | 12 |
| 42 | Multiple circular nano-inhomogeneities and/or nano-pores in one of two joined isotropic elastic half-planes. Engineering Analysis With Boundary Elements, 2009, 33, 233-248. | 3.7 | 56 |
| 43 | Transient thermal stresses in a medium with a circular cavity with surface effects. International Journal of Solids and Structures, 2009, 46, 1834-1848. | 2.7 | 16 |
| 44 | Numerical modeling of micro- and macro-behavior of viscoelastic porous materials. Computational Mechanics, 2008, 41, 797-816. | 4.0 | 4 |
| 45 | Multiple interacting circular nano-inhomogeneities with surface/interface effects. Journal of the Mechanics and Physics of Solids, 2008, 56, 2298-2327. | 4.8 | 237 |
| 46 | Computational Modeling of Viscoelastic Porous Materials. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 47 | On the use of Somigliana's formulae and series of surface spherical harmonics for elasticity problems with spherical boundaries. Engineering Analysis With Boundary Elements, 2007, 31, 116-132. | 3.7 | 8 |
| 48 | A semi-analytical solution for multiple circular inhomogeneities in one of two joined isotropic elastic half-planes. Engineering Analysis With Boundary Elements, 2007, 31, 692-705. | 3.7 | 3 |
| 49 | A boundary integral method for multiple circular holes in an elastic half-plane. Engineering Analysis With Boundary Elements, 2006, 30, 450-464. | 3.7 | 19 |
| 50 | Complex variable boundary integral method for linear viscoelasticity: Part Iâ€"basic formulations. Engineering Analysis With Boundary Elements, 2006, 30, 1049-1056. | 3.7 | 17 |
| 51 | Complex variable boundary integral method for linear viscoelasticity. Engineering Analysis With Boundary Elements, 2006, 30, 1057-1068. | 3.7 | 4 |
| 52 | A time domain direct boundary integral method for a viscoelastic plane with circular holes and elastic inclusions. Engineering Analysis With Boundary Elements, 2005, 29, 725-737. | 3.7 | 20 |
| 53 | A fast and accurate algorithm for a Galerkin boundary integral method. Computational Mechanics, 2005, 37, 96-109. | 4.0 | 18 |
| 54 | Direct boundary integral procedure for a Boltzmann viscoelastic plane with circular holes and elastic inclusions. Computational Mechanics, 2005, 37, 110-118. | 4.0 | 8 |

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| 55 | A boundary integral method for multiple circular inclusions in an elastic half-plane. Engineering Analysis With Boundary Elements, 2004, 28, 1083-1098. | 3.7 | 28 |
| 56 | A numerical procedure for multiple circular holes and elastic inclusions in a finite domain with a circular boundary. Computational Mechanics, 2003, 32, 250-258. | 4.0 | 12 |
| 57 | On the use of Somigliana's formula and Fourier series for elasticity problems with circular boundaries. International Journal for Numerical Methods in Engineering, 2003, 58, 537-578. | 2.8 | 24 |
| 58 | A complex boundary integral method for multiple circular holes in an infinite plane. Engineering Analysis With Boundary Elements, 2003, 27, 789-802. | 3.7 | 64 |
| 59 | A Galerkin boundary integral method for multiple circular elastic inclusions. International Journal for Numerical Methods in Engineering, 2001, 52, 1069-1106. | 2.8 | 71 |
| 60 | Interaction between a circular opening and fractures originating from its boundary in a piecewise homogeneous plane. International Journal for Numerical and Analytical Methods in Geomechanics, 2000, 24, 947-970. | 3.3 | 14 |
| 61 | Complex fundamental solutions and complex variables boundary element method in elasticity. Computational Mechanics, 1998, 22, 88-92. | 4.0 | 52 |
| 62 | The universal algorithm based on complex hypersingular integral equation to solve plane elasticity problems. Computational Mechanics, 1996, 18, 127-138. | 4.0 | 31 |
| 63 | The universal algorithm based on complex hypersingular integral equation to solve plane elasticity problems. Computational Mechanics, 1996, 18, 127-138. | 4.0 | 4 |
| 64 | Complex hypersingular integrals and integral equations in plane elasticity. Acta Mechanica, 1994, 105, 189-205. | 2.1 | 78 |