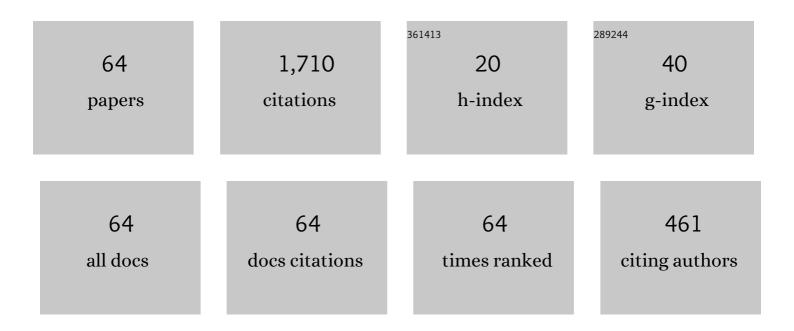
## Sofia G Mogilevskaya

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8833719/publications.pdf Version: 2024-02-01



| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Multiple interacting circular nano-inhomogeneities with surface/interface effects. Journal of the Mechanics and Physics of Solids, 2008, 56, 2298-2327.   | 4.8  | 237       |
| 2  | 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        |
| 3  | 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        |
| 4  | Circular inhomogeneity with Steigmann–Ogden interface: Local fields, neutrality, and Maxwell's type approximation formula. International Journal of Solids and Structures, 2018, 135, 85-98.                                | 2.7  | 83        |
| 5  | Complex hypersingular integrals and integral equations in plane elasticity. Acta Mechanica, 1994, 105, 189-205.   | 2.1  | 78        |
| 6  | A Galerkin boundary integral method for multiple circular elastic inclusions. International Journal for Numerical Methods in Engineering, 2001, 52, 1069-1106.  | 2.8  | 71        |
| 7  | Elastic interaction of spherical nanoinhomogeneities with Gurtin–Murdoch type interfaces. Journal of the Mechanics and Physics of Solids, 2011, 59, 1702-1716.  | 4.8  | 69        |
| 8  | Maxwell's methodology of estimating effective properties: Alive and well. International Journal of Engineering Science, 2019, 140, 35-88.   | 5.0  | 66        |
| 9  | A complex boundary integral method for multiple circular holes in an infinite plane. Engineering<br>Analysis With Boundary Elements, 2003, 27, 789-802.   | 3.7  | 64        |
| 10 | 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        |
| 11 | Complex fundamental solutions and complex variables boundary element method in elasticity.<br>Computational Mechanics, 1998, 22, 88-92.   | 4.0  | 52        |
| 12 | Local fields and overall transverse properties of unidirectional composite materials with multiple<br>nanofibers and Steigmann–Ogden interfaces. International Journal of Solids and Structures, 2018, 147,<br>166-182.     | 2.7  | 49        |
| 13 | Elastic fields and effective moduli of particulate nanocomposites with the Gurtin–Murdoch model of interfaces. International Journal of Solids and Structures, 2013, 50, 1141-1153.   | 2.7  | 48        |
| 14 | On Spherical Inhomogeneity With Steigmann–Ogden Interface. Journal of Applied Mechanics,<br>Transactions ASME, 2018, 85, .  | 2.2  | 44        |
| 15 | On Maxwell's concept of equivalent inhomogeneity: When do the interactions matter?. Journal of the<br>Mechanics and Physics of Solids, 2012, 60, 391-417.   | 4.8  | 42        |
| 16 | Fiber- and Particle-Reinforced Composite Materials With the Gurtin–Murdoch and Steigmann–Ogden<br>Surface Energy Endowed Interfaces. Applied Mechanics Reviews, 2021, 73, .   | 10.1 | 33        |
| 17 | The universal algorithm based on complex hypersingular integral equation to solve plane elasticity problems. Computational Mechanics, 1996, 18, 127-138.  | 4.0  | 31        |
| 18 | A boundary integral method for multiple circular inclusions in an elastic half-plane. Engineering<br>Analysis With Boundary Elements, 2004, 28, 1083-1098.  | 3.7  | 28        |

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|----|---|-----|-----------|
| 19 | Evaluation of the effective elastic moduli of particulate composites based on Maxwell's concept of equivalent inhomogeneity: microstructure-induced anisotropy. Journal of Mechanics of Materials and Structures, 2013, 8, 283-303. | 0.6 | 26        |
| 20 | 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        |
| 21 | Displacements representations for the problems with spherical and circular material surfaces.<br>Quarterly Journal of Mechanics and Applied Mathematics, 2019, 72, 449-471.   | 1.3 | 22        |
| 22 | 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        |
| 23 | A boundary integral method for multiple circular holes in an elastic half-plane. Engineering Analysis<br>With Boundary Elements, 2006, 30, 450-464.   | 3.7 | 19        |
| 24 | Analysis of the Antiplane Problem with an Embedded Zero Thickness Layer Described by the<br>Gurtin-Murdoch Model. Journal of Elasticity, 2020, 140, 171-195.  | 1.9 | 19        |
| 25 | A fast and accurate algorithm for a Galerkin boundary integral method. Computational Mechanics, 2005, 37, 96-109.   | 4.0 | 18        |
| 26 | Complex variable boundary integral method for linear viscoelasticity: Part I—basic formulations.<br>Engineering Analysis With Boundary Elements, 2006, 30, 1049-1056.   | 3.7 | 17        |
| 27 | Transient heat conduction in a medium with multiple spherical cavities. International Journal for Numerical Methods in Engineering, 2009, 77, 751-775.  | 2.8 | 17        |
| 28 | Evaluation of effective transverse mechanical properties of transversely isotropic viscoelastic composite materials. Journal of Composite Materials, 2011, 45, 2641-2658.   | 2.4 | 17        |
| 29 | The use of complex integral representations for analytical evaluation of three-dimensional BEM integralspotential and elasticity problems. Quarterly Journal of Mechanics and Applied Mathematics, 2014, 67, 505-523.               | 1.3 | 17        |
| 30 | Transient thermal stresses in a medium with a circular cavity with surface effects. International<br>Journal of Solids and Structures, 2009, 46, 1834-1848.   | 2.7 | 16        |
| 31 | Combining Maxwell'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        |
| 32 | Evaluation of the effective elastic moduli of tetragonal fiber-reinforced composites based on<br>Maxwell's concept of equivalent inhomogeneity. International Journal of Solids and Structures, 2013,<br>50, 4161-4172.             | 2.7 | 15        |
| 33 | A lined hole in a viscoelastic rock under biaxial far-field stress. International Journal of Rock<br>Mechanics and Minings Sciences, 2018, 106, 350-363.  | 5.8 | 15        |
| 34 | 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        |
| 35 | 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        |
| 36 | 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        |

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|----|--|-----|-----------|
| 37 | Interaction between a crack and a circular inhomogeneity with interface stiffness and tension.<br>International Journal of Fracture, 2009, 159, 191-207.   | 2.2 | 12        |
| 38 | 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        |
| 39 | Lost in translation: Crack problems in different languages. International Journal of Solids and Structures, 2014, 51, 4492-4503.   | 2.7 | 12        |
| 40 | 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        |
| 41 | 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        |
| 42 | Complex variables boundary element analysis of three-dimensional crack problems. Engineering<br>Analysis With Boundary Elements, 2013, 37, 1532-1544.  | 3.7 | 10        |
| 43 | On modeling of elastic interface layers in particle composites. International Journal of Engineering<br>Science, 2022, 176, 103697.  | 5.0 | 10        |
| 44 | Boundary element analysis of non-planar three-dimensional cracks using complex variables.<br>International Journal of Rock Mechanics and Minings Sciences, 2015, 76, 44-54.  | 5.8 | 9         |
| 45 | Direct boundary integral procedure for a Boltzmann viscoelastic plane with circular holes and elastic inclusions. Computational Mechanics, 2005, 37, 110-118.  | 4.0 | 8         |
| 46 | 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         |
| 47 | 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         |
| 48 | Novel approach for measuring the effective shear modulus of porous materials. Journal of Materials<br>Science, 2010, 45, 936-945.  | 3.7 | 7         |
| 49 | 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         |
| 50 | Complex variable boundary integral method for linear viscoelasticity. Engineering Analysis With<br>Boundary Elements, 2006, 30, 1057-1068.   | 3.7 | 4         |
| 51 | Numerical modeling of micro- and macro-behavior of viscoelastic porous materials. Computational Mechanics, 2008, 41, 797-816.  | 4.0 | 4         |
| 52 | On â€~strange' properties of some symmetric inhomogeneities. Proceedings of the Royal Society A:<br>Mathematical, Physical and Engineering Sciences, 2015, 471, 20150157.  | 2.1 | 4         |
| 53 | BEM-based second-order imperfect interface modeling of potential problems with thin layers.<br>International Journal of Solids and Structures, 2021, 230-231, 111155.  | 2.7 | 4         |
| 54 | Anisotropic imperfect interface in elastic particulate composite with initial stress. Mathematics and<br>Mechanics of Solids, 2022, 27, 872-895.   | 2.4 | 4         |

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|----|---|-----|-----------|
| 55 | The universal algorithm based on complex hypersingular integral equation to solve plane elasticity problems. Computational Mechanics, 1996, 18, 127-138.  | 4.0 | 4         |
| 56 | On the Bövik–Benveniste methodology and related approaches for modelling thin layers.<br>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .                | 3.4 | 4         |
| 57 | 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         |
| 58 | Numerical study of the Gurtin–Murdoch model for curved interfaces : benchmark solutions and<br>analysis of curvature-related effects. Journal of Mechanics of Materials and Structures, 2021, 16,<br>23-48. | 0.6 | 3         |
| 59 | Transient heat conduction in a medium with multiple circular cavities and inhomogeneities.<br>International Journal for Numerical Methods in Engineering, 2009, 80, 1437-1462.                              | 2.8 | 2         |
| 60 | Three-dimensional BEM analysis of stress state near a crack-borehole system. Engineering Analysis<br>With Boundary Elements, 2016, 73, 133-143.   | 3.7 | 2         |
| 61 | Elastic disk with isoperimetric Cosserat coating. European Journal of Mechanics, A/Solids, 2023, 100, 104568.   | 3.7 | 1         |
| 62 | Computational Modeling of Viscoelastic Porous Materials. AIP Conference Proceedings, 2008, , .  | 0.4 | 0         |
| 63 | The shape of Maxwell's equivalent inhomogeneity and â€~strange' properties of regular polygons and other symmetric domains. Quarterly Journal of Mechanics and Applied Mathematics, 2015, , hbv012.         | 1.3 | 0         |
| 64 | Analytical solution for doubly-periodic harmonic problems with circular inhomogeneities and<br>superconducting or membrane-type interfaces. European Journal of Mechanics, A/Solids, 2023, 100,<br>104556.  | 3.7 | 0         |