

Federico C Buroni

List of Publications by Year in descending order

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184
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#	ARTICLE	IF	CITATIONS
1	Multiscale design of nanoengineered matrices for lead-free piezocomposites: Improved performance via controlling auxeticity and anisotropy. <i>Composite Structures</i> , 2021, 255, 112909.	5.8	8
2	Closed-form solutions for the piezoresistivity properties of short-fiber reinforced composites with percolation-type behavior. <i>Carbon</i> , 2021, 184, 923-940.	10.3	10
3	Design of lead-free PVDF/CNT/BaTiO ₃ piezocomposites for sensing and energy harvesting: the role of polycrystallinity, nanoadditives, and anisotropy. <i>Smart Materials and Structures</i> , 2020, 29, 015021.	3.5	18
4	Design of nano-modified PVDF matrices for lead-free piezocomposites: Graphene vs carbon nanotube nano-additions. <i>Mechanics of Materials</i> , 2020, 142, 103275.	3.2	14
5	Analytical expressions to estimate the effective piezoelectric tensor of a textured polycrystal for any crystal symmetry. <i>Mechanics of Materials</i> , 2020, 151, 103604.	3.2	5
6	Design of polymeric auxetic matrices for improved mechanical coupling in lead-free piezocomposites. <i>Smart Materials and Structures</i> , 2020, 29, 054002.	3.5	24
7	Advanced modeling of lead-free piezocomposites: The role of nonlocal and nonlinear effects. <i>Composite Structures</i> , 2020, 238, 111967.	5.8	7
8	Size dependent electro-elastic enhancement in geometrically anisotropic lead-free piezocomposites. <i>International Journal of Mechanical Sciences</i> , 2020, 182, 105745.	6.7	10
9	An XFEM-based numerical scheme to compute crack-induced electrical resistivity changes in cracked CNT-reinforced composites using ANSYS. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
10	Lead-free piezocomposites with CNT-modified matrices: Accounting for agglomerations and molecular defects. <i>Composite Structures</i> , 2019, 224, 111033.	5.8	21
11	A fast and non-degenerate scheme for the evaluation of the 3D fundamental solution and its derivatives for fully anisotropic magneto-electro-elastic materials. <i>Engineering Analysis With Boundary Elements</i> , 2019, 105, 94-103.	3.7	1
12	Improving the performance of lead-free piezoelectric composites by using polycrystalline inclusions and tuning the dielectric matrix environment. <i>Smart Materials and Structures</i> , 2019, 28, 075032.	3.5	22
13	Boundary element analysis of the frictionless indentation of piezoelectric films. <i>European Journal of Computational Mechanics</i> , 2016, 25, 24-37.	0.6	3
14	3D explicit-BEM fracture analysis for materials with anisotropic multifield coupling. <i>Applied Mathematical Modelling</i> , 2016, 40, 2897-2912.	4.2	15
15	Quasistatic Electro-Elastic Contact Modeling Using the Boundary Element Method. <i>Key Engineering Materials</i> , 2016, 681, 185-196.	0.4	1
16	3D BEM for orthotropic frictional contact of piezoelectric bodies. <i>Computational Mechanics</i> , 2015, 56, 491-502.	4.0	20
17	A formalism for anisotropic heat transfer phenomena: Foundations and Green's functions. <i>International Journal of Heat and Mass Transfer</i> , 2014, 75, 399-409.	4.8	7
18	Analysis of FRP composites under frictional contact conditions. <i>International Journal of Solids and Structures</i> , 2013, 50, 3947-3959.	2.7	16

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19	Unique and Explicit Formulas for Green's Function in Three-Dimensional Anisotropic Linear Elasticity. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	11
20	Multiple pole residue approach for 3D BEM analysis of mathematical degenerate and non-degenerate materials. International Journal for Numerical Methods in Engineering, 2011, 86, 1125-1143.	2.8	10
21	3D frictional contact of anisotropic solids using BEM. European Journal of Mechanics, A/Solids, 2011, 30, 95-104.	3.7	23
22	Three-dimensional Green's function and its derivative for materials with general anisotropic magneto-electro-elastic coupling. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 515-537.	2.1	43
23	Effective properties of materials with random micro-cavities using special boundary elements. Journal of Materials Science, 2008, 43, 3510-3521.	3.7	6
24	A family of hole boundary elements for modeling materials with cylindrical voids. Engineering Analysis With Boundary Elements, 2008, 32, 578-590.	3.7	10