

# Alexandre Danescu

## List of Publications by Year in descending order

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40  
papers

339  
citations

933264

10  
h-index

887953

17  
g-index

44  
all docs

44  
docs citations

44  
times ranked

298  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Strong Ellipticity of the Anisotropic Linearly Elastic Materials. <i>Journal of Elasticity</i> , 2007, 87, 1-27.	0.9	67
2	Analysis of structure and strain at the meso-scale in 2D granular materials. <i>International Journal of Solids and Structures</i> , 2009, 46, 3257-3271.	1.3	39
3	Modeling macroscopic elasticity of porous silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 1680-1684.	0.8	27
4	The Asaro-Tiller-Grinfeld instability revisited. <i>International Journal of Solids and Structures</i> , 2001, 38, 4671-4684.	1.3	18
5	Spherical curves design for micro-origami using intrinsic stress relaxation. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	18
6	Nonlocal orientational distribution of contact forces in granular samples containing elongated particles. <i>Acta Geotechnica</i> , 2008, 3, 49-60.	2.9	16
7	Surface waves problem in a thermoviscoelastic porous half-space. <i>Wave Motion</i> , 2015, 54, 100-114.	1.0	15
8	Bifurcation in the traction problem for a transversely isotropic material. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 1991, 110, 385-394.	0.3	14
9	On the propagation waves in the theory of thermoelasticity with microtemperatures. <i>Mechanics Research Communications</i> , 2016, 75, 1-12.	1.0	13
10	Multiphase mean curvature flows with high mobility contrasts: A phase-field approach, with applications to nanowires. <i>Journal of Computational Physics</i> , 2018, 365, 324-349.	1.9	11
11	Crystal phase engineering of self-catalyzed GaAs nanowires using a RHEED diagram. <i>Nanoscale Advances</i> , 2020, 2, 2127-2134.	2.2	11
12	Wurtzite phase control for self-assisted GaAs nanowires grown by molecular beam epitaxy. <i>Nanotechnology</i> , 2021, 32, 155602.	1.3	10
13	Fabrication of self-rolling geodesic objects and photonic crystal tubes. <i>Nanotechnology</i> , 2018, 29, 285301.	1.3	8
14	A one-dimensional viscoelastic model for lateral relaxation in thin films. <i>Computational Materials Science</i> , 2003, 26, 56-60.	1.4	7
15	Strong ellipticity for tetragonal system in linearly elastic solids. <i>International Journal of Solids and Structures</i> , 2008, 45, 4850-4859.	1.3	7
16	Hyper-pre-stress vs. strain-gradient for surface relaxation in diamond-like structures. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 623-642.	2.3	7
17	Continuum strain-gradient elasticity from discrete valence force field model for diamond-like crystals. <i>International Journal of Fracture</i> , 2012, 174, 95-102.	1.1	6
18	Engineering Pseudosubstrates with Porous Silicon Technology. <i>Engineering Materials</i> , 2011, , 47-65.	0.3	5

#	ARTICLE	IF	CITATIONS
19	Interface accommodation mechanism for weakly interacting epitaxial systems. Applied Physics Letters, 2013, 103, 021602.	1.5	5
20	Impact of the Ga flux incidence angle on the growth kinetics of self-assisted GaAs nanowires on Si(111). Nanoscale Advances, 2019, 1, 4433-4441.	2.2	5
21	Tubular optical microcavities based on rolled-up photonic crystals. APL Photonics, 2020, 5, .	3.0	5
22	Shell design from planar pre-stressed structures. Mathematics and Mechanics of Solids, 2020, 25, 1247-1266.	1.5	5
23	Electro-elastic interactions and second order anisotropic constitutive equations. Meccanica, 1996, 31, 657-664.	1.2	3
24	Thermoelastic driving forces on singular surfaces. Mechanics Research Communications, 2002, 29, 507-512.	1.0	3
25	Spatial decay and growth properties for the incremental thermoelasticity. Zeitschrift Fur Angewandte Mathematik Und Physik, 2000, 51, 39-60.	0.7	2
26	Generalized Stefan models accounting for a discontinuous temperature field. Continuum Mechanics and Thermodynamics, 2004, 16, 427-439.	1.4	2
27	Texture of Ge on SrTiO <sub>3</sub> (001) substrates: Evidence for in-plane axiotaxy. Surface Science, 2016, 644, 13-17.	0.8	2
28	Hexagonal Ge Grown by Molecular Beam Epitaxy on Self-Assisted GaAs Nanowires. Crystal Growth and Design, 0, , .	1.4	2
29	Anisotropic polynomial constitutive equations for electroelastic crystals. Zeitschrift Fur Angewandte Mathematik Und Physik, 1997, 48, 857.	0.7	1
30	3D optical micro-resonators by curving nanostructures using intrinsic stress. , 2012, , .		1
31	Exact continuum interpolation of the linear chain with hyper-pre-stress. International Journal of Fracture, 2016, 202, 237-244.	1.1	1
32	Macroscopic Elasticity of Nanoporous Silicon: Bulk and Surface Effects. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2009, , 139-148.	0.1	1
33	Material symmetry in deformed configurations. International Journal of Engineering Science, 1990, 28, 367-374.	2.7	0
34	Design isotropic materials using anisotropic components via homogenization. International Journal of Engineering Science, 1998, 36, 545-554.	2.7	0
35	Vertical correlations in superlattices using the Grinfeld method. International Journal of Solids and Structures, 2003, 40, 4895-4910.	1.3	0
36	Strain-Structure Relationship at Meso-scale for 2D Granular Materials. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
37	Self-assembly 'micro-origami' photon cages as hollow micro-resonators. , 2015, , .		0
38	A metric-based approach to multiphase mean curvature flows with mobilities. Geometric Flows, 2018, 3, 97-113.	1.2	0
39	Continuum strain-gradient elasticity from discrete valence force field model for diamond-like crystals. , 2012, , 95-102.		0
40	Design of pre-stressed plate-strips to cover non-developable shells. European Journal of Mechanics, A/Solids, 2022, 95, 104609.	2.1	0