## **Robert Goldstein**

List of Publications by Year in descending order

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		516561	610775
121	917	16	24
papers	citations	h-index	g-index
100	100	100	40.4
123	123	123	404
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Chiral elasticity of nano/microtubes from hexagonal crystals. Acta Mechanica, 2018, 229, 2189-2201.	1.1	14
2	Longitudinal elastic tension of two-layered plates from isotropic auxetics-nonauxetics and cubic crystals. European Journal of Mechanics, A/Solids, 2017, 63, 122-127.	2.1	16
3	Deformation of Spherical Inclusion in an Elastic Body with Account for Influence of Interface Considered as Infinitesimal Layer with Abnormal Properties. Advanced Structured Materials, 2017, , 163-169.	0.3	0
4	Two‣ayered Tubes from Cubic Crystals: Auxetic Tubes. Physica Status Solidi (B): Basic Research, 2017, 254, 1600815.	0.7	18
5	Extreme values of the shear modulus for hexagonal crystals. Scripta Materialia, 2017, 140, 55-58.	2.6	11
6	Constitutive Equations for Severe Plastic Deformation Processes. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 73-79.	0.3	0
7	Kinetics of cracks nucleation on materials interface. Procedia Structural Integrity, 2017, 7, 222-228.	0.3	0
8	Limit velocities of lamb waves: Analytic and numerical studies. Mechanics of Solids, 2016, 51, 571-575.	0.3	5
9	Torsion of cylindrically anisotropic nano/microtubes from seven-constant tetragonal crystals. Poynting's effect. Physical Mesomechanics, 2016, 19, 349-354.	1.0	7
10	Two-layer tubes from cubic crystals. Doklady Physics, 2016, 61, 604-610.	0.2	7
11	Auxeticity in nano/microtubes produced from orthorhombic crystals. Smart Materials and Structures, 2016, 25, 054006.	1.8	17
12	Effect of constitutive equations on qualitative behavior of solutions in the vicinity of bi-material interfaces at large plastic strains. Continuum Mechanics and Thermodynamics, 2016, 28, 1635-1643.	1.4	1
13	Poynting's effect of cylindrically anisotropic nano/microtubes. Physical Mesomechanics, 2016, 19, 229-238.	1.0	8
14	The modified Cam-Clay (MCC) model: cyclic kinematic deviatoric loading. Archive of Applied Mechanics, 2016, 86, 2021-2031.	1.2	36
15	Loading history and structure of fracture of material. Procedia Structural Integrity, 2016, 2, 2397-2404.	0.3	0
16	Modeling of motion mechanism in the intermediate layer between contacting bodies in compression shear. Mechanics of Solids, 2016, 51, 284-297.	0.3	3
17	The elastic properties of hexagonal auxetics under pressure. Physica Status Solidi (B): Basic Research, 2016, 253, 1261-1269.	0.7	18
18	On the nonexistence of certain solutions for damage mechanics models. International Journal of Fracture, 2016, 200, 151-158.	1.1	0

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19	Non-axisymmetric edge buckling of circular plates when heated. PNRPU Mechanics Bulletin, 2016, 1, 45-53.	0.1	4
20	Torsion of cylindrically anisotropic nano/microtubes of the cubic crystals obtained by rolling the crystal planes (011). Letters on Materials, 2016, 6, 249-252.	0.2	5
21	A Study on the Generation of a Fine-Grained Layer in Upsetting Between Flat and Conical Dies. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 183-190.	0.3	0
22	Title is missing!. Journal of Mechanics of Materials and Structures, 2015, 10, 265-282.	0.4	0
23	Negative Poisson's ratio for sixâ€constant tetragonal nano/microtubes. Physica Status Solidi (B): Basic Research, 2015, 252, 1580-1586.	0.7	17
24	An approach to prediction of microstructure formation near friction surfaces at large plastic strains. Physical Mesomechanics, 2015, 18, 223-227.	1.0	23
25	Linear poynting's effect at torsion and extension of curvilinearly anisotropic tubes. Doklady Physics, 2015, 60, 396-399.	0.2	5
26	Some aspects of strength in sea ice mechanics. Physical Mesomechanics, 2015, 18, 139-148.	1.0	9
27	Study of forced vibrations of the Kelvin-Voigt model with an asymmetric spring. Mechanics of Solids, 2015, 50, 294-304.	0.3	4
28	On constructing constitutive equations in material thin layer near friction surfaces in material forming processes. Doklady Physics, 2015, 60, 39-41.	0.2	12
29	Initiation of a secondary crack across a frictional interface. Engineering Fracture Mechanics, 2015, 140, 92-105.	2.0	19
30	Influence of the form of material structure elements on the fracture scenario in a complex stress state. Mechanics of Solids, 2015, 50, 147-159.	0.3	5
31	Reply to "Comment on â€~A Compact Analytic Model of the Strain Field Induced by Through ilicon Viasâ€â€™. IEEE Transactions on Electron Devices, 2015, 62, 3106-3106.	1.6	0
32	Young's modulus and Poisson's ratio for seven-constant tetragonal crystals and nano/microtubes. Physical Mesomechanics, 2015, 18, 213-222.	1.0	23
33	Motion of a rigid bar in a rigid-viscoplastic medium: The influence of the model type on the solution behavior. Mechanics of Solids, 2015, 50, 389-396.	0.3	0
34	Failure analysis of structure components: Special Issue on 19th European Conference on Fracture (ECF19) selected papers. Engineering Failure Analysis, 2015, 47, 239-240.	1.8	0
35	Some new applications of ESPI at the mechanical tests. Meccanica, 2015, 50, 389-399.	1.2	1
36	Study of compression settlement of a three-layer rigid-plastic strip between parallel plates. Mechanics of Solids, 2014, 49, 703-712.	0.3	1

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37	Trajectories of principal stresses in the plane-stress state of material obeying the Tresca and Coulomb-Mohr yield conditions. Doklady Physics, 2014, 59, 460-462.	0.2	5
38	Equilibrium of Mixed-mode Interface Cracks under Cleavage of an Elastic Plane Caused by an Edge Dislocation. , 2014, 3, 1742-1747.		1
39	Scale Interaction and Ordering Effects at Fracture. Procedia IUTAM, 2014, 10, 180-192.	1.2	2
40	On surface elasticity theory for plane interfaces. Physical Mesomechanics, 2014, 17, 30-38.	1.0	3
41	Effect of the relationship between the elastic modulus and plastic strain on residual stresses and strains in a tube. Journal of Applied Mechanics and Technical Physics, 2014, 55, 74-80.	0.1	0
42	Development of multiple ordered fracture in an elastic homogeneous, structured and layered medium. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 1292-1305.	1.7	6
43	Rayleigh and Love surface waves in isotropic media with negative Poisson's ratio. Mechanics of Solids, 2014, 49, 422-434.	0.3	16
44	Taking into account van der Waals interaction in some problems of elasticity. Mechanics of Solids, 2014, 49, 67-72.	0.3	1
45	Macrofracture analysis and testing Special Issue 19th European Conference on Fracture (ECF19) selected papers. Engineering Fracture Mechanics, 2014, 129, 1-2.	2.0	Ο
46	Negative Poisson's ratio for cubic crystals and nano/microtubes. Physical Mesomechanics, 2014, 17, 97-115.	1.0	46
47	Simulation of variations in mechanical properties of polyurethane elastomers modified with carbon nanotubes. Physical Mesomechanics, 2013, 16, 93-98.	1.0	2
48	Reconstruction of the welding thermal cycle and determination of residual stresses from isotherm traces. Mechanics of Solids, 2013, 48, 86-91.	0.3	1
49	Similarity of grain-size evolution near frictional interfaces and in the process of equal-channel angular pressing. Doklady Physics, 2013, 58, 177-180.	0.2	4
50	Classification of cubic auxetics. Physica Status Solidi (B): Basic Research, 2013, 250, 2038-2043.	0.7	19
51	Young's moduli and Poisson's ratios of curvilinear anisotropic hexagonal and rhombohedral nanotubes. Nanotubes-auxetics. Doklady Physics, 2013, 58, 400-404.	0.2	12
52	Fracture initiation in the contact region under shear. Mechanics of Solids, 2013, 48, 417-423.	0.3	1
53	Stress-strain state in an elastoplastic cylindrical tube with free ends. I. General solution. Mechanics of Solids, 2013, 48, 537-545.	0.3	0
54	19th European Conference on Fracture (ECF19) Fracture Mechanics for Durability, Reliability and Safety. Engineering Failure Analysis, 2013, 29, 180-181.	1.8	0

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55	Surface acoustic waves in the testing of layered media. The waves' sensitivity to variations in the properties of the individual layers. Prikladnaya Matematika I Mekhanika, 2013, 77, 51-56.	0.4	3
56	Modeling and Optimization of Edge Dislocation Stressors. IEEE Electron Device Letters, 2013, 34, 948-950.	2.2	3
57	Fracture structure near a longitudinal shear macrorupture. Mechanics of Solids, 2012, 47, 505-516.	0.3	17
58	Foreword: Max D Coon (1937–2010). Cold Regions Science and Technology, 2012, 76-77, 1-2.	1.6	0
59	Successive development of the structure of a fracture near the front of a longitudinal shear crack. Doklady Physics, 2012, 57, 281-284.	0.2	16
60	Kinetics of crack formation and growth on the material interface. Mechanics of Solids, 2012, 47, 400-414.	0.3	14
61	Generalization of the Prandtl solution to the case of axisymmetric deformation of materials obeying the double shear model. Mechanics of Solids, 2012, 47, 654-664.	0.3	2
62	Conditions for Mode I crack deviation in orthotropic plane subjected to biaxial loading. International Journal of Engineering Science, 2012, 61, 36-47.	2.7	5
63	Fundamental problems of solid mechanics in high technologies. Physical Mesomechanics, 2012, 15, 224-231.	1.0	4
64	Von KÃrmÃn problem for a rotating permeable disk. Fluid Dynamics, 2012, 47, 50-57.	0.2	2
65	A Compact Analytic Model of the Strain Field Induced by Through Silicon Vias. IEEE Transactions on Electron Devices, 2012, 59, 777-782.	1.6	19
66	Relation of Poisson's ratio on average with Young's modulus. Auxetics on average. Doklady Physics, 2012, 57, 174-178.	0.2	12
67	Variability of elastic properties of hexagonal auxetics. Doklady Physics, 2011, 56, 602-605.	0.2	13
68	Influence of plastic anisotropy on predictions of some engineering approaches in fracture mechanics. Mechanics of Solids, 2011, 46, 856-862.	0.3	1
69	On an ice failure model with a large contact region. Mechanics of Solids, 2011, 46, 109-122.	0.3	0
70	Effect of the mean-stress dependence of yield conditions on residual stresses and strains. Doklady Physics, 2011, 56, 279-282.	0.2	0
71	Cubic auxetics. Doklady Physics, 2011, 56, 399-402.	0.2	21
72	Experimental and theoretical investigation of formation of the oxygen-containing precipitate-dislocation loop system in silicon. Physics of the Solid State, 2011, 53, 527-538.	0.2	5

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73	The Mechanical Modeling of Oxygen-Containing Precipitates in Silicon Wafers on Different Stages of the Getter Formation Process. Solid State Phenomena, 2011, 178-179, 483-488.	0.3	0
74	Kh. A. Rakhmatulin's scientific legacy in the field of mechanics of deformable rigid bodies. Mechanics of Solids, 2010, 45, 3-9.	0.3	6
75	Simulation of stress-strain state in SiGe island heterostructures. Mechanics of Solids, 2010, 45, 312-323.	0.3	3
76	Auxetic mechanics of crystalline materials. Mechanics of Solids, 2010, 45, 529-545.	0.3	53
77	On a model of structured medium fracture under compression conditions. Mechanics of Solids, 2010, 45, 835-843.	0.3	4
78	About brittle fracture in the vicinity of filled pores. Continuum Mechanics and Thermodynamics, 2010, 22, 555-569.	1.4	5
79	To the description of multi-layered nanotubes in models of cylindrically anisotropic elasticity. Physical Mesomechanics, 2010, 13, 12-20.	1.0	3
80	Effect of residual surface stress and surface elasticity on deformation of nanometer spherical inclusions in an elastic matrix. Physical Mesomechanics, 2010, 13, 318-328.	1.0	29
81	Strain Relaxation during Formation of Ge Nanolens Stacks. Electrochemical and Solid-State Letters, 2010, 13, K43.	2.2	2
82	SiGe Quantum Rings by Ultra-high Vacuum Chemical Vapor Deposition. ECS Transactions, 2009, 16, 647-657.	0.3	2
83	Application of the method of multipole expansions in the 3D-elasticity problem for a medium with ordered system of spherical pores. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2009, 89, 504-510.	0.9	5
84	Mesomechanics of multiwall carbon nanotubes and nanowhiskers. Physical Mesomechanics, 2009, 12, 38-53.	1.0	14
85	About negativity of the Poisson's ratio for anisotropic materials. Doklady Physics, 2009, 54, 546-548.	0.2	9
86	Kinetic equation for the grain size in processes of intense plastic deformation. Doklady Physics, 2009, 54, 553-556.	0.2	5
87	Relaxation scales and the structure of fractures in the dynamics of sea ice. Cold Regions Science and Technology, 2009, 58, 29-35.	1.6	11
88	Thermodynamic theory of interfacial adhesion between materials containing point defects. , 2009, , .		1
89	Dependence of a crack growth path on the elastic moduli of an anisotropic solid. International Journal of Fracture, 2008, 150, 157-180.	1.1	2
90	Mesomechanics of multiple cracking of brittle coatings in a loaded solid. International Journal of Fracture, 2008, 150, 37-53.	1.1	14

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91	Modeling of failure and lifetime of thin-film metal conductors in integrated circuits. Physical Mesomechanics, 2008, 11, 158-186.	1.0	3
92	Application of invariant integrals to elastostatic inverse problems. Comptes Rendus - Mecanique, 2008, 336, 108-117.	2.1	5
93	Evaluating intrinsic deformations in oxygen-containing precipitates. Technical Physics Letters, 2008, 34, 106-108.	0.2	1
94	To determination of the strength of nanodimensional objects. Mechanics of Solids, 2008, 43, 453-469.	0.3	6
95	Use of electronic speckle interferometry for recording nanodisplacements. Mechanics of Solids, 2008, 43, 662-670.	0.3	1
96	Sliding mode of multiple cracking of thin coatings. Physical Mesomechanics, 2007, 10, 111-112.	1.0	1
97	Mechanics of deformation and fracture of nanomaterials and nanotechnology. Physical Mesomechanics, 2007, 10, 235-246.	1.0	23
98	Plastic flow in a conical channel. Prikladnaya Matematika I Mekhanika, 2007, 71, 111-119.	0.4	3
99	Possible instability of a rectilinear crack path in an orthotropic plane at uniaxial normal tension. Mechanics of Solids, 2007, 42, 356-366.	0.3	0
100	Modeling of coating separation under thermomechanical loading in the beam approximation. Mechanics of Solids, 2007, 42, 723-736.	0.3	0
101	Application of invariant integrals to the problems of defect identification. International Journal of Fracture, 2007, 147, 45-54.	1.1	21
102	On application of classical Eshelby approach to calculating effective elastic moduli of dispersed composites. International Journal of Fracture, 2007, 147, 55-66.	1.1	7
103	Editorial on Professor V. V. Bolotin. Fatigue and Fracture of Engineering Materials and Structures, 2003, 26, 711-713.	1.7	5
104	Fracture and manufacturing: selected papers from EUROMECH Colloquium 418. Fatigue and Fracture of Engineering Materials and Structures, 2003, 26, 293-294.	1.7	0
105	Modeling electromigration and the void nucleation in thin-film interconnects of integrated circuits. International Journal of Fracture, 2001, 109, 91-121.	1.1	12
106	On an effect of dislocations on the surface tension at the interface between two materials. Doklady Physics, 2001, 46, 853-855.	0.2	1
107	On The Formation of Large Scale Structural Features. Solid Mechanics and Its Applications, 2001, , 323-334.	0.1	3
108	Exact analytical solution to a rigid/plastic problem with hardening and damage evolution. Comptes Rendus De L'Academie De Sciences - Serie IIb: Mecanique, Physique, Chimie, Astronomie, 1999, 327, 193-199.	0.1	0

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109	Modeling of Bonding at an Interface Crack. International Journal of Fracture, 1999, 99, 53-79.	1.1	42
110	Upper bound limit load solutions for a round welded bar with an internal axisymmetric crack. Fatigue and Fracture of Engineering Materials and Structures, 1999, 22, 775-780.	1.7	7
111	Distributions of stress and plastic strain in notched tensile bars. International Journal of Fracture, 1998, 91, 1-11.	1.1	5
112	A MODEL FOR THE BEHAVIOUR OF MATERIALS WITH CRACKS UNDER HYDROGEN EMBRITTLEMENT CONDITIONS. Fatigue and Fracture of Engineering Materials and Structures, 1997, 20, 1269-1277.	1.7	6
113	Asymptotic analysis of a delamination in a bi-layered plate. Comptes Rendus De L'Académie Des Sciences - Series IIB - Mechanics-Physics-Chemistry-Astronomy, 1997, 324, 419-426.	0.1	0
114	On the engineering treatment model (ETM). International Journal of Fracture, 1996, 78, R29-R35.	1.1	0
115	Surface roughness induced attenuation and changes in the propagation velocity of long Rayleigh-type waves. Acta Mechanica, 1992, 91, 235-243.	1.1	5
116	Three-dimensional elasticity problems related to cracks: Exact solution by inversion transformation. Theoretical and Applied Fracture Mechanics, 1986, 5, 143-149.	2.1	1
117	Asymptotic solution of three-dimensional elasticity problems of elongated plane tensile cracks. International Journal of Fracture, 1986, 31, 83-104.	1.1	3
118	Application of direct variational method to the solution of mixed boundary value problems. International Journal for Numerical Methods in Engineering, 1978, 12, 1213-1239.	1.5	4
119	Material scale length as a measure of fracture toughness in fracture mechanics of plastic materials. International Journal of Fracture, 1978, 14, 185-201.	1.1	22
120	Axisymmetric problem of a crack at the interface of layers in a multi-layered medium. International Journal of Engineering Science, 1976, 14, 335-352.	2.7	16
121	Some Mechanical Models of Chemical-Mechanical Polishing Processes. Key Engineering Materials, 0, 528, 33-44.	0.4	1