

Graeme W Milton

List of Publications by Year in descending order

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165
papers

11,078
citations

57631

44
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97
g-index

169
all docs

169
docs citations

169
times ranked

4506
citing authors

#	ARTICLE	IF	CITATIONS
1	On cloaking for elasticity and physical equations with a transformation invariant form. <i>New Journal of Physics</i> , 2006, 8, 248-248.	1.2	818
2	3D metamaterials. <i>Nature Reviews Physics</i> , 2019, 1, 198-210.	11.9	598
3	On modifications of Newton's second law and linear continuum elastodynamics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007, 463, 855-880.	1.0	462
4	On the cloaking effects associated with anomalous localized resonance. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006, 462, 3027-3059.	1.0	455
5	Composite materials with poisson's ratios close to $\hat{\nu} = 1$. <i>Journal of the Mechanics and Physics of Solids</i> , 1992, 40, 1105-1137.	2.3	448
6	Which Elasticity Tensors are Realizable?. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1995, 117, 483-493.	0.8	383
7	Bounds on the complex permittivity of a two-component composite material. <i>Journal of Applied Physics</i> , 1981, 52, 5286-5293.	1.1	355
8	Bounds on the Electromagnetic, Elastic, and Other Properties of Two-Component Composites. <i>Physical Review Letters</i> , 1981, 46, 542-545.	2.9	289
9	Bounds on the complex dielectric constant of a composite material. <i>Applied Physics Letters</i> , 1980, 37, 300-302.	1.5	272
10	Nonmagnetic cloak with minimized scattering. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	272
11	Bounds on the transport and optical properties of a two-component composite material. <i>Journal of Applied Physics</i> , 1981, 52, 5294-5304.	1.1	266
12	Variational bounds on the effective moduli of anisotropic composites. <i>Journal of the Mechanics and Physics of Solids</i> , 1988, 36, 597-629.	2.3	266
13	Optical and dielectric properties of partially resonant composites. <i>Physical Review B</i> , 1994, 49, 8479-8482.	1.1	223
14	Exact results for generalized Gassmann's equations in composite porous media with two constituents. <i>Geophysics</i> , 1991, 56, 1950-1960.	1.4	189
15	On characterizing the set of possible effective tensors of composites: The variational method and the translation method. <i>Communications on Pure and Applied Mathematics</i> , 1990, 43, 63-125.	1.2	180
16	Bounds on the elastic and transport properties of two-component composites. <i>Journal of the Mechanics and Physics of Solids</i> , 1982, 30, 177-191.	2.3	175
17	Quasistatic cloaking of two-dimensional polarizable discrete systems by anomalous resonance. <i>Optics Express</i> , 2007, 15, 6314.	1.7	162
18	On three-dimensional dilational elastic metamaterials. <i>New Journal of Physics</i> , 2014, 16, 033032.	1.2	157

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19	The coherent potential approximation is a realizable effective medium scheme. <i>Communications in Mathematical Physics</i> , 1985, 99, 463-500.	1.0	150
20	Microgeometry of random composites and porous media. <i>Journal Physics D: Applied Physics</i> , 1988, 21, 87-94.	1.3	132
21	Spectral Theory of a Neumann-Poincaré-Type Operator and Analysis of Cloaking Due to Anomalous Localized Resonance. <i>Archive for Rational Mechanics and Analysis</i> , 2013, 208, 667-692.	1.1	127
22	Active Exterior Cloaking for the 2D Laplace and Helmholtz Equations. <i>Physical Review Letters</i> , 2009, 103, 073901.	2.9	124
23	Analytical model for the dielectric response of brine-saturated rocks. <i>Physical Review B</i> , 1986, 34, 5145-5153.	1.1	122
24	Finite Frequency Range Kramers-Kronig Relations: Bounds on the Dispersion. <i>Physical Review Letters</i> , 1997, 79, 3062-3065.	2.9	122
25	A proof of superlensing in the quasistatic regime, and limitations of superlenses in this regime due to anomalous localized resonance. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2005, 461, 3999-4034.	1.0	118
26	Complete characterization of the macroscopic deformations of periodic unimode metamaterials of rigid bars and pivots. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 1543-1560.	2.3	112
27	On the effective conductivity of polycrystals and a three-dimensional phase-interchange inequality. <i>Journal of Applied Physics</i> , 1988, 63, 4989-5003.	1.1	109
28	Broadband exterior cloaking. <i>Optics Express</i> , 2009, 17, 14800.	1.7	98
29	New metamaterials with macroscopic behavior outside that of continuum elastodynamics. <i>New Journal of Physics</i> , 2007, 9, 359-359.	1.2	84
30	Solutions to the Pólya-Szegő Conjecture and the Weak Eshelby Conjecture. <i>Archive for Rational Mechanics and Analysis</i> , 2008, 188, 93-116.	1.1	82
31	Normalization constraint for variational bounds on fluid permeability. <i>Journal of Chemical Physics</i> , 1985, 83, 754-760.	1.2	78
32	Transport properties of arrays of intersecting cylinders. <i>Applied Physics Berlin</i> , 1981, 25, 23-30.	1.4	77
33	Solutions in folded geometries, and associated cloaking due to anomalous resonance. <i>New Journal of Physics</i> , 2008, 10, 115021.	1.2	75
34	An accelerated FFT algorithm for thermoelastic and nonlinear composites. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 76, 1678-1695.	1.5	69
35	Multicomponent composites, electrical networks and new types of continued fraction I. <i>Communications in Mathematical Physics</i> , 1987, 111, 281-327.	1.0	68
36	New exact results for the effective electric, elastic, piezoelectric and other properties of composite ellipsoid assemblages. <i>Journal of the Mechanics and Physics of Solids</i> , 2003, 51, 1773-1813.	2.3	67

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37	Optimal Bounds on the Effective Bulk Modulus of Polycrystals. SIAM Journal on Applied Mathematics, 1989, 49, 824-837.	0.8	66
38	Neutral coated inclusions in conductivity and antiplane elasticity. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 1973-1997.	1.0	66
39	Optimizing the superlens: Manipulating geometry to enhance the resolution. Applied Physics Letters, 2005, 87, 231113.	1.5	64
40	Inclusion Pairs Satisfying Eshelby's Uniformity Property. SIAM Journal on Applied Mathematics, 2008, 69, 577-595.	0.8	55
41	On the possible effective elasticity tensors of 2-dimensional and 3-dimensional printed materials. Mathematics and Mechanics of Complex Systems, 2017, 5, 41-94.	0.5	55
42	Exterior cloaking with active sources in two dimensional acoustics. Wave Motion, 2011, 48, 515-524.	1.0	54
43	Classical Hall effect in two-dimensional composites: A characterization of the set of realizable effective conductivity tensors. Physical Review B, 1988, 38, 11296-11303.	1.1	53
44	On Bounding the Effective Conductivity of Anisotropic Composites. The IMA Volumes in Mathematics and Its Applications, 1986, , 97-125.	0.5	50
45	A complete characterization of the possible bulk and shear moduli of planar polycrystals. Journal of the Mechanics and Physics of Solids, 1996, 44, 1179-1218.	2.3	45
46	Polycrystalline configurations that maximize electrical resistivity. Journal of the Mechanics and Physics of Solids, 1991, 39, 525-542.	2.3	42
47	Exact relations for effective tensors of composites: Necessary conditions and sufficient conditions. Communications on Pure and Applied Mathematics, 2000, 53, 300-353.	1.2	40
48	Change of Sign of the Corrector's Determinant for Homogenization in Three-Dimensional Conductivity. Archive for Rational Mechanics and Analysis, 2004, 173, 133-150.	1.1	40
49	Bounding the current in nonlinear conducting composites. Journal of the Mechanics and Physics of Solids, 2000, 48, 1295-1324.	2.3	39
50	An electromagnetic theory of dielectric waveguides with multiple embedded cylinders. Journal of Lightwave Technology, 1994, 12, 396-410.	2.7	37
51	Anomalous localized resonance using a folded geometry in three dimensions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130048.	1.0	37
52	The total creep of viscoelastic composites under hydrostatic or antiplane loading. Journal of the Mechanics and Physics of Solids, 2005, 53, 1248-1279.	2.3	33
53	Field patterns: a new mathematical object. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20160819.	1.0	33
54	Rigorous bounds on the effective moduli of composites and inhomogeneous bodies with negative-stiffness phases. Journal of the Mechanics and Physics of Solids, 2014, 71, 46-63.	2.3	32

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55	Inverse Transport Problems for Composite Media. Materials Research Society Symposia Proceedings, 1990, 195, 257.	0.1	31
56	Representations for the conductivity functions of multicomponent composites. Communications on Pure and Applied Mathematics, 1990, 43, 647-671.	1.2	31
57	Proof of a conjecture on the conductivity of checkerboards. Journal of Mathematical Physics, 2001, 42, 4873-4882.	0.5	31
58	Opaque perfect lenses. Physica B: Condensed Matter, 2007, 394, 171-175.	1.3	31
59	On the effective viscoelastic moduli of two-phase media. III. Rigorous bounds on the complex shear modulus in two dimensions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1999, 455, 2117-2149.	1.0	30
60	Homogenization of the Three-dimensional Hall Effect and Change of Sign of the Hall Coefficient. Archive for Rational Mechanics and Analysis, 2009, 193, 715-736.	1.1	30
61	The effective medium and the average field approximations vis-à-vis the Hashin-Shtrikman bounds. I. The self-consistent scheme in matrix-based composites. Journal of the Mechanics and Physics of Solids, 2010, 58, 1026-1038.	2.3	29
62	Bounds on Herglotz functions and fundamental limits of broadband passive quasistatic cloaking. Journal of Mathematical Physics, 2017, 58, .	0.5	28
63	Sets of conductivity and elasticity tensors stable under lamination. Communications on Pure and Applied Mathematics, 1994, 47, 257-279.	1.2	27
64	New examples of three-dimensional dilational materials. Physica Status Solidi (B): Basic Research, 2015, 252, 1426-1430.	0.7	25
65	Progress on the strong Eshelby's conjecture and extremal structures for the elastic moment tensor. Journal Des Mathematiques Pures Et Appliquees, 2010, 94, 93-106.	0.8	24
66	The effective medium and the average field approximations vis-à-vis the Hashin-Shtrikman bounds. II. The generalized self-consistent scheme in matrix-based composites. Journal of the Mechanics and Physics of Solids, 2010, 58, 1039-1056.	2.3	24
67	Convergence of iterative methods based on Neumann series for composite materials: Theory and practice. International Journal for Numerical Methods in Engineering, 2018, 114, 1103-1130.	1.5	24
68	New third-order bounds on the effective moduli of n -phase composites. Quarterly of Applied Mathematics, 1983, 41, 59-74.	0.5	23
69	Realizability of metamaterials with prescribed electric permittivity and magnetic permeability tensors. New Journal of Physics, 2010, 12, 033035.	1.2	22
70	Adaptable nonlinear bimode metamaterials using rigid bars, pivots, and actuators. Journal of the Mechanics and Physics of Solids, 2013, 61, 1561-1568.	2.3	22
71	Optimal bounds for conduction in two-dimensional, multiphase, polycrystalline media. Journal of Statistical Physics, 1987, 46, 161-177.	0.5	21
72	Cloaking by plasmonic resonance among systems of particles: cooperation or combat?. Comptes Rendus Physique, 2009, 10, 391-399.	0.3	21

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73	Sharp bounds on the volume fractions of two materials in a two-dimensional body from electrical boundary measurements: the translation method. <i>Calculus of Variations and Partial Differential Equations</i> , 2012, 45, 367-401.	0.9	21
74	Spectral super-resolution in metamaterial composites. <i>New Journal of Physics</i> , 2011, 13, 115005.	1.2	20
75	An effective medium theory for multi-phase matrix-based dielectric composites with randomly oriented ellipsoidal inclusions. <i>International Journal of Engineering Science</i> , 2011, 49, 2-16.	2.7	19
76	Bounds on the Volume Fractions of Two Materials in a Three-Dimensional Body from Boundary Measurements by the Translation Method. <i>SIAM Journal on Applied Mathematics</i> , 2013, 73, 475-492.	0.8	19
77	Duality relations, correspondences and numerical results for planar elastic composites. <i>Journal of the Mechanics and Physics of Solids</i> , 1997, 45, 565-590.	2.3	18
78	Classifying first-order phase transitions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1986, 138, 22-54.	1.2	16
79	Bubbly flow and its relation to conduction in composites. <i>Journal of Fluid Mechanics</i> , 1991, 233, 65-81.	1.4	16
80	Minimization variational principles for acoustics, elastodynamics and electromagnetism in lossy inhomogeneous bodies at fixed frequency. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 367-396.	1.0	16
81	Complete Characterization and Synthesis of the Response Function of Elastodynamic Networks. <i>Journal of Elasticity</i> , 2011, 102, 31-54.	0.9	15
82	Bounds on the volume fraction of 2-phase, 2-dimensional elastic bodies and on (stress, strain) pairs in composites. <i>Comptes Rendus - Mecanique</i> , 2012, 340, 193-204.	2.1	15
83	Towards a complete characterization of the effective elasticity tensors of mixtures of an elastic phase and an almost rigid phase. <i>Mathematics and Mechanics of Complex Systems</i> , 2017, 5, 95-113.	0.5	15
84	A link between sets of tensors stable under lamination and quasiconvexity. <i>Communications on Pure and Applied Mathematics</i> , 1994, 47, 959-1003.	1.2	14
85	Minimum variational principles for time-harmonic waves in a dissipative medium and associated variational principles of Hashin-Shtrikman type. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 3013-3032.	1.0	14
86	Mathematical analysis of the two dimensional active exterior cloaking in the quasistatic regime. <i>Analysis and Mathematical Physics</i> , 2012, 2, 231-246.	0.6	14
87	High-frequency homogenization for travelling waves in periodic media. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160066.	1.0	14
88	A biomimetic sliding stretching approach to seismic isolation. <i>Nonlinear Dynamics</i> , 2021, 106, 3147.	2.7	14
89	Modelling the effective conductivity function of an arbitrary two-dimensional polycrystal using sequential laminates. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1994, 124, 757-783.	0.8	13
90	Homogenization of the two-dimensional Hall effect. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 339, 1468-1484.	0.5	13

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91	Universal bounds on the electrical and elastic response of two-phase bodies and their application to bounding the volume fraction from boundary measurements. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 139-155.	2.3	13
92	Transformation Elastodynamics and Active Exterior Acoustic Cloaking. <i>Springer Series in Materials Science</i> , 2013, , 289-318.	0.4	13
93	Optimal G -Closure Bounds via Stability under Lamination. <i>Archive for Rational Mechanics and Analysis</i> , 1999, 150, 191-207.	1.1	12
94	Which electric fields are realizable in conducting materials?. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2014, 48, 307-323.	0.8	12
95	Continuum fluids with a discontinuity in the pressure. <i>Journal of Statistical Physics</i> , 1983, 32, 413-438.	0.5	11
96	Exact results in linear thermomechanics of fluid-saturated porous media. <i>Applied Physics Letters</i> , 1992, 61, 2030-2032.	1.5	11
97	Can Mixing Materials Make Electromagnetic Signals Travel Faster?. <i>SIAM Journal on Applied Mathematics</i> , 2002, 62, 2064-2091.	0.8	11
98	Realizable response matrices of multi-terminal electrical, acoustic and elastodynamic networks at a given frequency. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008, 464, 967-986.	1.0	11
99	The searchlight effect in hyperbolic materials. <i>Optics Express</i> , 2013, 21, 14926.	1.7	11
100	Extending the Theory of Composites to Other Areas of Science. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	1.1	11
101	Giant Hall Effect in Composites. <i>Multiscale Modeling and Simulation</i> , 2009, 7, 1405-1427.	0.6	10
102	Field patterns without blow up. <i>New Journal of Physics</i> , 2017, 19, 093022.	1.2	10
103	An Antisymmetric Effective Hall Matrix. <i>SIAM Journal on Applied Mathematics</i> , 2010, 70, 1810-1820.	0.8	9
104	Theory of the Hall effect in three-dimensional metamaterials. <i>New Journal of Physics</i> , 2018, 20, 083034.	1.2	9
105	Realizable (Average Stress, Average Strain) Pairs in a Plate with Holes. <i>SIAM Journal on Applied Mathematics</i> , 2003, 63, 987-1028.	0.8	8
106	A metamaterial having a frequency dependent elasticity tensor and a zero effective mass density. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1412-1414.	0.7	8
107	Sharp inequalities that generalize the divergence theorem: an extension of the notion of quasi-convexity. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20130075.	1.0	8
108	Bounds on the Volume Fraction of the Two-Phase Shallow Shell Using One Measurement. <i>Journal of Elasticity</i> , 2014, 114, 41-53.	0.9	8

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109	On the forces that cable webs under tension can support and how to design cable webs to channel stresses. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180781.	1.0	8
110	Rank one plus a null-Lagrangian is an inherited property of two-dimensional compliance tensors under homogenisation. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1998, 128, 283-299.	0.8	7
111	Exact band structure for the scalar wave equation with periodic complex moduli. Physica B: Condensed Matter, 2003, 338, 186-189.	1.3	7
112	Bounds on the Size of an Inclusion Using the Translation Method for Two-Dimensional Complex Conductivity. SIAM Journal on Applied Mathematics, 2014, 74, 939-958.	0.8	7
113	Bounds on complex polarizabilities and a new perspective on scattering by a lossy inclusion. Physical Review B, 2017, 96, .	1.1	7
114	Stiff competition. Nature, 2018, 564, E1-E1.	13.7	7
115	The Field Equation Recursion Method. , 1991, , 223-245.		7
116	A Possible Use of Bounds on Effective Moduli of Composite Materials. Journal of Reinforced Plastics and Composites, 1982, 1, 107-114.	1.6	6
117	Bounds for interpolating complex effective moduli of viscoelastic materials from measured data. Rheologica Acta, 2002, 41, 461-470.	1.1	6
118	Effective conductivities of thin-interphase composites. Journal of the Mechanics and Physics of Solids, 2013, 61, 2680-2691.	2.3	6
119	Explicit examples of extremal quasiconvex quadratic forms that are not polyconvex. Calculus of Variations and Partial Differential Equations, 2015, 54, 1575-1589.	0.9	6
120	Sensitivity of anomalous localized resonance phenomena with respect to dissipation. Quarterly of Applied Mathematics, 2016, 74, 201-234.	0.5	6
121	Towards Characterization of All \mathbb{R}^3 Extremal Quasiconvex Quadratic Forms. Communications on Pure and Applied Mathematics, 2017, 70, 2164-2190.	1.2	6
122	Field patterns: A new type of wave with infinitely degenerate band structure. Europhysics Letters, 2017, 120, 54003.	0.7	6
123	Bounds on the volume of an inclusion in a body from a complex conductivity measurement. Communications in Mathematical Sciences, 2015, 13, 863-892.	0.5	6
124	A review of anomalous resonance, its associated cloaking, and superlensing. Comptes Rendus Physique, 2020, 21, 409-423.	0.3	6
125	Perfectly Conducting Lamellar Gratings: Babinet's Principle and Circuit Models. Journal of Modern Optics, 1995, 42, 2453-2473.	0.6	5
126	Bounds for the group velocity of electromagnetic signals in two phase materials. Physica B: Condensed Matter, 2000, 279, 9-12.	1.3	5

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127	Addendum to "Sharp inequalities that generalize the divergence theorem: an extension of the notion of quasi-convexity". Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140886.	1.0	5
128	On the Relation Between Extremal Elasticity Tensors with Orthotropic Symmetry and Extremal Polynomials. Archive for Rational Mechanics and Analysis, 2017, 223, 199-212.	1.1	5
129	Near optimal pentamodes as a tool for guiding stress while minimizing compliance in 3d-printed materials: A complete solution to the weak G-closure problem for 3d-printed materials. Journal of the Mechanics and Physics of Solids, 2018, 114, 194-208.	2.3	5
130	Tight Bounds on the Effective Complex Permittivity of Isotropic Composites and Related Problems. Physical Review Applied, 2020, 14, .	1.5	5
131	Inclusions of General Shapes Having Constant Field Inside the Core and NonElliptical Neutral Coated Inclusions With Anisotropic Conductivity. SIAM Journal on Applied Mathematics, 2020, 80, 1420-1440.	0.8	5
132	On ideal dynamic climbing ropes. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2017, 231, 136-143.	0.4	4
133	Electromagnetic circuits. Networks and Heterogeneous Media, 2010, 5, 335-360.	0.5	4
134	On Optimizing the Properties of Hierarchical Laminates Using Pontryagin's Maximum Principle. Multiscale Modeling and Simulation, 2005, 3, 658-679.	0.6	3
135	Criteria for guaranteed breakdown in two-phase inhomogeneous bodies. Inverse Problems, 2017, 33, 085006.	1.0	3
136	The set of forces that ideal trusses, or wire webs, under tension can support. International Journal of Solids and Structures, 2017, 128, 272-281.	1.3	3
137	A new route to finding bounds on the generalized spectrum of many physical operators. Journal of Mathematical Physics, 2018, 59, .	0.5	3
138	Some open problems in the theory of composites. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200115.	1.6	3
139	A Possible Explanation of Dark Matter and Dark Energy Involving a Vector Torsion Field. Universe, 2022, 8, 298.	0.9	3
140	Hybrid electromagnetic circuits. Physica B: Condensed Matter, 2010, 405, 2935-2937.	1.3	2
141	Exact determination of the volume of an inclusion in a body having constant shear modulus. Inverse Problems, 2014, 30, 125008.	1.0	2
142	Isotropic Realizability of Current Fields in \mathbb{R}^3 . SIAM Journal on Applied Dynamical Systems, 2015, 14, 1165-1188.	0.7	2
143	Analytic materials. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160613.	1.0	2
144	Approximating the Effective Tensor as a Function of the Component Tensors in Two-Dimensional Composites of Two Anisotropic Phases. SIAM Journal on Mathematical Analysis, 2018, 50, 3327-3364.	0.9	2

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145	Exact relations for Green's functions in linear PDE and boundary field equalities: a generalization of conservation laws. <i>Research in Mathematical Sciences</i> , 2019, 6, 1.	0.5	2
146	The Exact Photonic Band Structure for a Class of Media with Periodic Complex Moduli. <i>Methods and Applications of Analysis</i> , 2004, 11, 413-422.	0.1	2
147	On the conductivity of polycrystals and a phase-interchange inequality. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 157, 148-153.	1.2	1
148	Reformulating the problem of finding effective tensors. , 2002, , 245-270.		1
149	New Bounds on Strong Field Magneto-Transport in Multiphase Columnar Composites. <i>SIAM Journal on Applied Mathematics</i> , 2010, 70, 3272-3286.	0.8	1
150	Invisibility Cloaking. , 2015, , 751-758.		1
151	Planar polycrystals with extremal bulk and shear moduli. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 157, 104601.	2.3	1
152	Laminate materials. , 2002, , 159-184.		0
153	Variational principles and inequalities. , 2002, , 271-290.		0
154	Bounds using the compensated compactness or translation method. , 2002, , 499-528.		0
155	Series expansions for the fields and effective tensors. , 2002, , 291-312.		0
156	The general theory of exact relations and links between effective tensors. , 2002, , 355-368.		0
157	Classical variational principle bounds. , 2002, , 437-456.		0
158	Bounds from the Hashin-Shtrikman variational inequalities. , 2002, , 457-498.		0
159	Choosing the translations and finding microgeometries that attain the bounds. , 2002, , 529-552.		0
160	Properties of the G-closure and extremal families of composites. , 2002, , 643-670.		0
161	Optimizing the superlens geometry. , 2006, , .		0
162	Cloaking: A New Phenomenon in Electromagnetism and Elasticity. , 2007, , .		0

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163	Reversal of the Hall coefficient sign under homogenization. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1050603-1050604.	0.2	0
164	Bounds on strong field magneto-transport in three-dimensional composites. Journal of Mathematical Physics, 2011, 52, 103705.	0.5	0
165	Cloaking: A New Phenomenon in Electromagnetism and Elasticity. , 2007, , .		0