

Peter M Pinsky

List of Publications by Year in descending order

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64
papers

2,504
citations

218677

26
h-index

223800

46
g-index

67
all docs

67
docs citations

67
times ranked

1517
citing authors

#	ARTICLE	IF	CITATIONS
1	Title is missing!. , 2018, , .		0
2	A numerical model for metabolism, metabolite transport and edema in the human cornea. Computer Methods in Applied Mechanics and Engineering, 2017, 314, 323-344.	6.6	7
3	A Constitutive Model for Swelling Pressure and Volumetric Behavior of Highly-Hydrated Connective Tissue. Journal of Elasticity, 2017, 129, 145-170.	1.9	5
4	The Balance of Fluid and Osmotic Pressures across Active Biological Membranes with Application to the Corneal Endothelium. PLoS ONE, 2015, 10, e0145422.	2.5	23
5	A structural model for the <i>in vivo</i> human cornea including collagen-swelling interaction. Journal of the Royal Society Interface, 2015, 12, 20150241.	3.4	33
6	Three-Dimensional Modeling of Metabolic Species Transport in the Cornea With a Hydrogel Intrastromal Inlay. , 2014, 55, 3093.		26
7	The role of 3-D collagen organization in stromal elasticity: a model based on X-ray diffraction data and second harmonic-generated images. Biomechanics and Modeling in Mechanobiology, 2013, 12, 1101-1113.	2.8	72
8	Modeling Collagen-Proteoglycan Structural Interactions in the Human Cornea. , 2013, , 11-24.		12
9	Mechanisms of self-organization for the collagen fibril lattice in the human cornea. Journal of the Royal Society Interface, 2013, 10, 20130512.	3.4	39
10	Three-Dimensional Distribution of Transverse Collagen Fibers in the Anterior Human Corneal Stroma. , 2013, 54, 7293.		124
11	Depth-Dependent Transverse Shear Properties of the Human Corneal Stroma. , 2012, 53, 873.		124
12	A nonlinear macroscopic multi-phasic model for describing interactions between solid, fluid and ionic species in biological tissue materials. Philosophical Magazine, 2011, 91, 300-314.	1.6	3
13	Elastostatic Analysis of the Membrane Tenting Deformation of Inner-Ear Stereocilia. , 2011, , .		2
14	Matrixâ€œPadÃ© via Lanczos solutions for vibrations of fluidâ€œstructure interaction. International Journal for Numerical Methods in Engineering, 2010, 84, 1183-1204.	2.8	15
15	On Mechanics of Connective Tissue: Assessing the Electrostatic Contribution to Corneal Stroma Elasticity. Materials Research Society Symposia Proceedings, 2009, 1239, 1.	0.1	7
16	Multiscale Modeling Framework of Transdermal Drug Delivery. Annals of Biomedical Engineering, 2009, 37, 1217-1229.	2.5	42
17	Adaptive frequency windowing for multifrequency solutions in structural acoustics based on the matrix PadÃ©-via-Lanczos algorithm. International Journal for Numerical Methods in Engineering, 2008, 73, 728-746.	2.8	20
18	Using the method of homogenization to calculate the effective diffusivity of the stratum corneum with permeable corneocytes. Journal of Biomechanics, 2008, 41, 788-796.	2.1	31

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19	Finite element modeling of acousto-mechanical coupling in the cat middle ear. Journal of the Acoustical Society of America, 2008, 124, 348-362.	1.1	41
20	Analytic perturbation solution to the capacitance system of a hyperboloidal tip and a rough surface. Applied Physics Letters, 2008, 92, .	3.3	3
21	Using the method of homogenization to calculate the effective diffusivity of the stratum corneum. Journal of Membrane Science, 2007, 293, 174-182.	8.2	25
22	Finite Element Modeling of Coupled Diffusion with Partitioning in Transdermal Drug Delivery. Annals of Biomedical Engineering, 2005, 33, 1422-1438.	2.5	53
23	Computational modeling of mechanical anisotropy in the cornea and sclera. Journal of Cataract and Refractive Surgery, 2005, 31, 136-145.	1.5	186
24	An application of shape optimization in the solution of inverse acoustic scattering problems. Inverse Problems, 2004, 20, 199-228.	2.0	48
25	A Krylov subspace projection method for simultaneous solution of Helmholtz problems at multiple frequencies. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 4609-4640.	6.6	15
26	Application of Pad�� via Lanczos approximations for efficient multifrequency solution of Helmholtz problems. Journal of the Acoustical Society of America, 2003, 113, 313-319.	1.1	9
27	Shape sensitivity calculations for exterior acoustics problems. Engineering Computations, 2001, 18, 376-393.	1.4	12
28	A residual-based finite element method for the Helmholtz equation. International Journal for Numerical Methods in Engineering, 2000, 49, 399-419.	2.8	61
29	A NUMERICAL COMPARISON OF FINITE ELEMENT METHODS FOR THE HELMHOLTZ EQUATION. Journal of Computational Acoustics, 2000, 08, 211-221.	1.0	20
30	EFFICIENT COMPUTATION OF MULTI-FREQUENCY FAR-FIELD SOLUTIONS OF THE HELMHOLTZ EQUATION USING PAD�� APPROXIMATION. Journal of Computational Acoustics, 2000, 08, 223-240.	1.0	21
31	A multiscale finite element method for the Helmholtz equation. Computer Methods in Applied Mechanics and Engineering, 1998, 154, 281-297.	6.6	68
32	Galerkin Generalized Least Squares finite element methods for time-harmonic structural acoustics. Computer Methods in Applied Mechanics and Engineering, 1998, 154, 299-318.	6.6	10
33	Parallel preconditioning based on h-hierarchical finite elements with application to acoustics. Computer Methods in Applied Mechanics and Engineering, 1998, 155, 97-117.	6.6	10
34	On the implementation of the Dirichlet-to-Neumann radiation condition for iterative solution of the Helmholtz equation. Applied Numerical Mathematics, 1998, 27, 443-464.	2.1	36
35	Iterative solution of multiple radiation and scattering problems in structural acoustics using a block quasi-minimal residual algorithm. Computer Methods in Applied Mechanics and Engineering, 1997, 146, 173-196.	6.6	34
36	A space-time finite element method for structural acoustics in infinite domains part 1: Formulation, stability and convergence. Computer Methods in Applied Mechanics and Engineering, 1996, 132, 195-227.	6.6	36

#	ARTICLE	IF	CITATIONS
37	A space-time finite element method for structural acoustics in infinite domains part 2: Exact time-dependent non-reflecting boundary conditions. Computer Methods in Applied Mechanics and Engineering, 1996, 132, 229-258.	6.6	21
38	Design of Galerkin Generalized Least Squares methods for Timoshenko beams. Computer Methods in Applied Mechanics and Engineering, 1996, 132, 1-16.	6.6	25
39	A space-time finite element method for the exterior acoustics problem. Journal of the Acoustical Society of America, 1996, 99, 3297-3311.	1.1	19
40	A Galerkin least-squares finite element method for the two-dimensional Helmholtz equation. International Journal for Numerical Methods in Engineering, 1995, 38, 371-397.	2.8	209
41	Complex wavenumber Fourier analysis of the p-version finite element method. Computational Mechanics, 1994, 13, 255-275.	4.0	122
42	Finite element formulation for a baffled, fluid-loaded, finite cylindrical shell. International Journal for Numerical Methods in Engineering, 1994, 37, 2971-2985.	2.8	4
43	Complex wave-number dispersion analysis of Galerkin and Galerkin least-squares methods for fluid-loaded plates. Computer Methods in Applied Mechanics and Engineering, 1994, 113, 67-98.	6.6	19
44	Local high-order radiation boundary conditions for the two-dimensional time-dependent structural acoustics problem. Journal of the Acoustical Society of America, 1992, 91, 1320-1335.	1.1	34
45	Finite element dispersion analysis for the three-dimensional second-order scalar wave equation. International Journal for Numerical Methods in Engineering, 1992, 35, 1183-1218.	2.8	55
46	Numerical Modeling of Radial, Astigmatic, and Hexagonal Keratotomy. Journal of Refractive Surgery, 1992, 8, 164-172.	2.3	37
47	Finite element solution of the transient exterior structural acoustics problem based on the use of radially asymptotic boundary operators. Computer Methods in Applied Mechanics and Engineering, 1991, 85, 311-348.	6.6	32
48	On the use of lagrange multiplier compatible modes for controlling accuracy and stability of mixed shell finite elements. Computer Methods in Applied Mechanics and Engineering, 1991, 85, 151-182.	6.6	7
49	A microstructurally-based finite element model of the incised human cornea. Journal of Biomechanics, 1991, 24, 907-922.	2.1	144
50	On the Use of Bubble Modes in Mixed Plate and Shell Finite Elements for Laminated Composites. Springer Series in Computational Mechanics, 1990, , 282-301.	0.3	0
51	A mixed finite element formulation for Reissner-Mindlin plates based on the use of bubble functions. International Journal for Numerical Methods in Engineering, 1989, 28, 1677-1702.	2.8	32
52	Two mixed variational principles for exterior fluid-structure interaction problems. Computers and Structures, 1989, 33, 621-635.	4.4	11
53	A mixed finite element for laminated composite plates based on the use of bubble functions. Engineering Computations, 1989, 6, 316-330.	1.4	7
54	Convergence of curved shell elements based on assumed covariant strain interpolations. International Journal for Numerical Methods in Engineering, 1988, 26, 329-347.	2.8	13

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55	Elastoplastic Shell Element Based on Assumed Covariant Strain Interpolations. Journal of Engineering Mechanics - ASCE, 1988, 114, 1045-1062.	2.9	5
56	A finite element formulation for elastoplasticity based on a three-field variational equation. Computer Methods in Applied Mechanics and Engineering, 1987, 61, 41-60.	6.6	22
57	An assumed covariant strain based 9-node shell element. International Journal for Numerical Methods in Engineering, 1987, 24, 2389-2411.	2.8	92
58	A multi-director formulation for elastic-viscoelastic layered shells. International Journal for Numerical Methods in Engineering, 1986, 23, 2213-2244.	2.8	20
59	A multi-director formulation for nonlinear elastic-viscoelastic layered shells. Computers and Structures, 1986, 24, 901-913.	4.4	13
60	Operator split methods for the numerical solution of the elastoplastic dynamic problem. Computer Methods in Applied Mechanics and Engineering, 1983, 39, 137-157.	6.6	109
61	Numerical integration of rate constitutive equations in finite deformation analysis. Computer Methods in Applied Mechanics and Engineering, 1983, 40, 137-158.	6.6	115
62	Unconditionally stable element-by-element algorithms for dynamic problems. Computer Methods in Applied Mechanics and Engineering, 1983, 36, 223-239.	6.6	39
63	Operator split methods in the numerical solution of the finite deformation elastoplastic dynamic problem. Computers and Structures, 1983, 17, 345-359.	4.4	16
64	Multifrequency Analysis using Matrix Padé via Lanczos. , 0, , 89-114.		2