

Peter M Pinsky

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,504
citations

218381

26
h-index

223531

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. | 3.4 | 7 |
| 3 | A Constitutive Model for Swelling Pressure and Volumetric Behavior of Highly-Hydrated Connective Tissue. Journal of Elasticity, 2017, 129, 145-170. | 0.9 | 5 |
| 4 | The Balance of Fluid and Osmotic Pressures across Active Biological Membranes with Application to the Corneal Endothelium. PLoS ONE, 2015, 10, e0145422. | 1.1 | 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. | 1.5 | 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. | 1.4 | 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. | 1.5 | 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. | 0.7 | 3 |
| 13 | Elastostatic Analysis of the Membrane Tenting Deformation of Inner-Ear Stereocilia. , 2011, , . | | 2 |
| 14 | Matrix-structure interaction via Lanczos solutions for vibrations of fluid-structure interaction. International Journal for Numerical Methods in Engineering, 2010, 84, 1183-1204. | 1.5 | 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. | 1.3 | 42 |
| 17 | Adaptive frequency windowing for multifrequency solutions in structural acoustics based on the matrix Pad -via-Lanczos algorithm. International Journal for Numerical Methods in Engineering, 2008, 73, 728-746. | 1.5 | 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. | 0.9 | 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. | 0.5 | 41 |
| 20 | Analytic perturbation solution to the capacitance system of a hyperboloidal tip and a rough surface. Applied Physics Letters, 2008, 92, . | 1.5 | 3 |
| 21 | Using the method of homogenization to calculate the effective diffusivity of the stratum corneum. Journal of Membrane Science, 2007, 293, 174-182. | 4.1 | 25 |
| 22 | Finite Element Modeling of Coupled Diffusion with Partitioning in Transdermal Drug Delivery. Annals of Biomedical Engineering, 2005, 33, 1422-1438. | 1.3 | 53 |
| 23 | Computational modeling of mechanical anisotropy in the cornea and sclera. Journal of Cataract and Refractive Surgery, 2005, 31, 136-145. | 0.7 | 186 |
| 24 | An application of shape optimization in the solution of inverse acoustic scattering problems. Inverse Problems, 2004, 20, 199-228. | 1.0 | 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. | 3.4 | 15 |
| 26 | Application of Padé via Lanczos approximations for efficient multifrequency solution of Helmholtz problems. Journal of the Acoustical Society of America, 2003, 113, 313-319. | 0.5 | 9 |
| 27 | Shape sensitivity calculations for exterior acoustics problems. Engineering Computations, 2001, 18, 376-393. | 0.7 | 12 |
| 28 | A residual-based finite element method for the Helmholtz equation. International Journal for Numerical Methods in Engineering, 2000, 49, 399-419. | 1.5 | 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 PADÉ 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. | 3.4 | 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. | 3.4 | 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. | 3.4 | 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. | 1.2 | 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. | 3.4 | 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. | 3.4 | 36 |

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|----|---|-----|-----------|
| 37 | A space-time finite element method for structural acoustics in infinite domains part 2: Exact time-dependent non-reflecting boundary conditions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1996, 132, 229-258. | 3.4 | 21 |
| 38 | Design of Galerkin Generalized Least Squares methods for Timoshenko beams. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1996, 132, 1-16. | 3.4 | 25 |
| 39 | A space-time finite element method for the exterior acoustics problem. <i>Journal of the Acoustical Society of America</i> , 1996, 99, 3297-3311. | 0.5 | 19 |
| 40 | A Galerkin least-squares finite element method for the two-dimensional Helmholtz equation. <i>International Journal for Numerical Methods in Engineering</i> , 1995, 38, 371-397. | 1.5 | 209 |
| 41 | Complex wavenumber Fourier analysis of the p-version finite element method. <i>Computational Mechanics</i> , 1994, 13, 255-275. | 2.2 | 122 |
| 42 | Finite element formulation for a baffled, fluid-loaded, finite cylindrical shell. <i>International Journal for Numerical Methods in Engineering</i> , 1994, 37, 2971-2985. | 1.5 | 4 |
| 43 | Complex wave-number dispersion analysis of Galerkin and Galerkin least-squares methods for fluid-loaded plates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1994, 113, 67-98. | 3.4 | 19 |
| 44 | Local high-order radiation boundary conditions for the two-dimensional time-dependent structural acoustics problem. <i>Journal of the Acoustical Society of America</i> , 1992, 91, 1320-1335. | 0.5 | 34 |
| 45 | Finite element dispersion analysis for the three-dimensional second-order scalar wave equation. <i>International Journal for Numerical Methods in Engineering</i> , 1992, 35, 1183-1218. | 1.5 | 55 |
| 46 | Numerical Modeling of Radial, Astigmatic, and Hexagonal Keratotomy. <i>Journal of Refractive Surgery</i> , 1992, 8, 164-172. | 1.1 | 37 |
| 47 | Finite element solution of the transient exterior structural acoustics problem based on the use of radially asymptotic boundary operators. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1991, 85, 311-348. | 3.4 | 32 |
| 48 | On the use of lagrange multiplier compatible modes for controlling accuracy and stability of mixed shell finite elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1991, 85, 151-182. | 3.4 | 7 |
| 49 | A microstructurally-based finite element model of the incised human cornea. <i>Journal of Biomechanics</i> , 1991, 24, 907-922. | 0.9 | 144 |
| 50 | On the Use of Bubble Modes in Mixed Plate and Shell Finite Elements for Laminated Composites. <i>Springer Series in Computational Mechanics</i> , 1990, , 282-301. | 0.3 | 0 |
| 51 | A mixed finite element formulation for Reissner-Mindlin plates based on the use of bubble functions. <i>International Journal for Numerical Methods in Engineering</i> , 1989, 28, 1677-1702. | 1.5 | 32 |
| 52 | Two mixed variational principles for exterior fluid-structure interaction problems. <i>Computers and Structures</i> , 1989, 33, 621-635. | 2.4 | 11 |
| 53 | A mixed finite element for laminated composite plates based on the use of bubble functions. <i>Engineering Computations</i> , 1989, 6, 316-330. | 0.7 | 7 |
| 54 | Convergence of curved shell elements based on assumed covariant strain interpolations. <i>International Journal for Numerical Methods in Engineering</i> , 1988, 26, 329-347. | 1.5 | 13 |

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|----|--|-----|-----------|
| 55 | Elastoplastic Shell Element Based on Assumed Covariant Strain Interpolations. Journal of Engineering Mechanics - ASCE, 1988, 114, 1045-1062. | 1.6 | 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. | 3.4 | 22 |
| 57 | An assumed covariant strain based 9-node shell element. International Journal for Numerical Methods in Engineering, 1987, 24, 2389-2411. | 1.5 | 92 |
| 58 | A multi-director formulation for elastic-viscoelastic layered shells. International Journal for Numerical Methods in Engineering, 1986, 23, 2213-2244. | 1.5 | 20 |
| 59 | A multi-director formulation for nonlinear elastic-viscoelastic layered shells. Computers and Structures, 1986, 24, 901-913. | 2.4 | 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. | 3.4 | 109 |
| 61 | Numerical integration of rate constitutive equations in finite deformation analysis. Computer Methods in Applied Mechanics and Engineering, 1983, 40, 137-158. | 3.4 | 115 |
| 62 | Unconditionally stable element-by-element algorithms for dynamic problems. Computer Methods in Applied Mechanics and Engineering, 1983, 36, 223-239. | 3.4 | 39 |
| 63 | Operator split methods in the numerical solution of the finite deformation elastoplastic dynamic problem. Computers and Structures, 1983, 17, 345-359. | 2.4 | 16 |
| 64 | Multifrequency Analysis using Matrix Padé via Lanczos. , 0, , 89-114. | | 2 |