

Mark H Holmes

List of Publications by Year in descending order

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20
papers

1,024
citations

1162367

8
h-index

1125271

13
g-index

20
all docs

20
docs citations

20
times ranked

873
citing authors

#	ARTICLE	IF	CITATIONS
1	A model and analysis for the nonlinear amplification of waves in the cochlea. <i>Mathematical Biosciences</i> , 2018, 301, 10-20.	0.9	0
2	A model for the nonlinear mechanism responsible for cochlear amplification. <i>Mathematical Biosciences and Engineering</i> , 2014, 11, 1357-1373.	1.0	2
3	<i>Multiple Scales</i> . <i>Texts in Applied Mathematics</i> , 2013, , 139-221.	0.4	1
4	<i>Introduction to Asymptotic Approximations</i> . <i>Texts in Applied Mathematics</i> , 2013, , 1-56.	0.4	0
5	<i>Matched Asymptotic Expansions</i> . <i>Texts in Applied Mathematics</i> , 2013, , 57-137.	0.4	1
6	<i>The WKB and Related Methods</i> . <i>Texts in Applied Mathematics</i> , 2013, , 223-296.	0.4	0
7	<i>The Method of Homogenization</i> . <i>Texts in Applied Mathematics</i> , 2013, , 297-324.	0.4	0
8	<i>Introduction to Bifurcation and Stability</i> . <i>Texts in Applied Mathematics</i> , 2013, , 325-392.	0.4	0
9	<i>Three Dimensional Viscoelasticity in Finite Strain: Formulation of a Rate-Type Constitutive Law Consistent with Dissipation</i> . <i>The IMA Volumes in Mathematics and Its Applications</i> , 1998, , 67-87.	0.5	0
10	A mathematical approximation for the solution of a static indentation test. <i>Journal of Biomechanics</i> , 1997, 30, 747-751.	0.9	20
11	Indentation of a thin compressible elastic layer: Approximate analytic and numerical solutions for rigid flat indenters. <i>Journal of the Mechanics and Physics of Solids</i> , 1995, 43, 1199-1219.	2.3	8
12	Auditory transduction: A model for the role of intracellular calcium in short-term adaptation. <i>Mathematical and Computer Modelling</i> , 1991, 15, 35-55.	2.0	1
13	Frequency discrimination in the mammalian cochlea: Theory versus experiment. <i>Journal of the Acoustical Society of America</i> , 1987, 81, 103-114.	0.5	7
14	A fibrous dynamic continuum model of the tympanic membrane. <i>Journal of the Acoustical Society of America</i> , 1986, 80, 1716-1728.	0.5	43
15	Behaviour of a Model for the Synapse of an Auditory Receptor Cell. <i>Mathematical Medicine and Biology</i> , 1986, 3, 301-317.	0.8	3
16	A theoretical analysis for determining the nonlinear hydraulic permeability of a soft tissue from a permeation experiment. <i>Bulletin of Mathematical Biology</i> , 1985, 47, 669-683.	0.9	34
17	Cochlear mechanics: Analysis for a pure tone. <i>Journal of the Acoustical Society of America</i> , 1984, 76, 767-778.	0.5	30
18	Comparison Theorems and Similarity Solution Approximations for a Nonlinear Diffusion Equation Arising in the Study of Soft Tissue. <i>SIAM Journal on Applied Mathematics</i> , 1984, 44, 545-556.	0.8	21

#	ARTICLE	IF	CITATIONS
19	Fluid transport and mechanical properties of articular cartilage: A review. <i>Journal of Biomechanics</i> , 1984, 17, 377-394.	0.9	836
20	A nonlinear diffusion equation arising in the study of soft tissue. <i>Quarterly of Applied Mathematics</i> , 1983, 41, 209-220.	0.5	17