

David Chappell

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

220
citations

1307594

7
h-index

996975

15
g-index

21
all docs

21
docs citations

21
times ranked

127
citing authors

#	ARTICLE	IF	CITATIONS
1	Wave chaos in acoustics and elasticity. Journal of Physics A: Mathematical and Theoretical, 2007, 40, R443-R509.	2.1	70
2	Spectrum of stochastic evolution operators: Local matrix representation approach. Physical Review E, 1999, 60, 3936-3941.	2.1	25
3	Solving the stationary Liouville equation via a boundary element method. Journal of Computational Physics, 2013, 234, 487-498.	3.8	24
4	Boundary element dynamical energy analysis: A versatile method for solving two or three dimensional wave problems in the high frequency limit. Journal of Computational Physics, 2012, 231, 6181-6191.	3.8	19
5	High-frequency structure- and air-borne sound transmission for a tractor model using Dynamical Energy Analysis. Wave Motion, 2019, 87, 132-150.	2.0	19
6	A boundary integral formalism for stochastic ray tracing in billiards. Chaos, 2014, 24, 043137.	2.5	12
7	Improved Approximation of Phase-Space Densities on Triangulated Domains Using Discrete Flow Mapping with p-Refinement. Journal of Scientific Computing, 2017, 72, 1290-1312.	2.3	12
8	Noise Corrections to Stochastic Trace Formulas. Foundations of Physics, 2001, 31, 641-657.	1.3	7
9	Transport of phase space densities through tetrahedral meshes using discrete flow mapping. Journal of Computational Physics, 2017, 328, 95-108.	3.8	7
10	Numerical-asymptotic models for the manipulation of viscous films via dielectrophoresis. Journal of Fluid Mechanics, 2020, 901, .	3.4	5
11	A boundary integral method for modelling vibroacoustic energy distributions in uncertain built up structures. Journal of Computational Physics, 2018, 373, 130-147.	3.8	4
12	Asymptotics of High Order Noise Corrections. Journal of Statistical Physics, 2000, 101, 385-395.	1.2	3
13	A Direction Preserving Discretization for Computing Phase-Space Densities. SIAM Journal of Scientific Computing, 2021, 43, B884-B906.	2.8	3
14	Boundary integral solution of potential problems arising in the modelling of electrified oil films. Journal of Integral Equations and Applications, 2015, 27, .	0.6	2
15	Ray and wave scattering in smoothly curved thin shell cylindrical ridges. Journal of Sound and Vibration, 2016, 377, 155-168.	3.9	2
16	Uncertainty quantification for phase-space boundary integral models of ray propagation. Wave Motion, 2019, 87, 151-165.	2.0	2
17	Modelling uncertainties in phase-space boundary integral models of ray propagation. Communications in Nonlinear Science and Numerical Simulation, 2020, 80, 104973.	3.3	2
18	Boundary integral models of stochastic ray propagation: Discretisation via the collocation and Nyström methods. AIP Conference Proceedings, 2017, , .	0.4	1

#	ARTICLE	IF	CITATIONS
19	Static and Dynamic Optical Analysis of Micro Wrinkle Formation on a Liquid Surface. <i>Micromachines</i> , 2021, 12, 1583.	2.9	1
20	On hybrid convolution quadrature approaches for modeling time-domain wave problems with broadband frequency content. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 7581-7608.	2.8	0