Stephen Langdon

List of Publications by Year
in descending order

19	560	759233	839539
papers	citations	12	18
		h-index	g-index

19	19	19	259
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical-asymptotic boundary integral methods in high-frequency acoustic scattering. Acta Numerica, 2012, 21, 89-305.	10.7	165
2	A Galerkin Boundary Element Method for High Frequency Scattering by Convex Polygons. SIAM Journal on Numerical Analysis, 2007, 45, 610-640.	2.3	79
3	Condition number estimates for combined potential integral operators in acoustics and their boundary element discretisation. Numerical Methods for Partial Differential Equations, 2011, 27, 31-69.	3.6	69
4	Finite element approximation of a sixth order nonlinear degenerate parabolic equation. Numerische Mathematik, 2004, 96, 401-434.	1.9	48
5	A High Frequency hp Boundary Element Method for Scattering by Convex Polygons. SIAM Journal on Numerical Analysis, 2013, 51, 629-653.	2.3	28
6	A finite difference moving mesh method based on conservation for moving boundary problems. Journal of Computational and Applied Mathematics, 2015, 288, 1-17.	2.0	27
7	A frequency-independent boundary element method for scattering by two-dimensional screens and apertures. IMA Journal of Numerical Analysis, 2015, 35, 1698-1728.	2.9	25
8	Hybrid numerical-asymptotic approximation for high-frequency scattering by penetrable convex polygons. IMA Journal of Applied Mathematics, 2015, 80, 324-353.	1.6	22
9	A collocation method for high-frequency scattering by convex polygons. Journal of Computational and Applied Mathematics, 2007, 204, 334-343.	2.0	17
10	Small- and Waiting-Time Behavior of the Thin-Film Equation. SIAM Journal on Applied Mathematics, 2007, 67, 1776-1807.	1.8	15
11	Efficient evaluation of highly oscillatory acoustic scattering surface integrals. Journal of Computational and Applied Mathematics, 2007, 204, 363-374.	2.0	13
12	A High Frequency Boundary Element Method for Scattering by Convex Polygons with Impedance Boundary Conditions. Communications in Computational Physics, 2012, 11, 573-593.	1.7	13
13	High frequency scattering by convex curvilinear polygons. Journal of Computational and Applied Mathematics, 2010, 234, 2020-2026.	2.0	11
14	A hybrid numericalâ€"asymptotic boundary element method for high frequency scattering by penetrable convex polygons. Wave Motion, 2018, 78, 32-53.	2.0	11
15	A moving mesh approach for modelling avascular tumour growth. Applied Numerical Mathematics, 2013, 72, 99-114.	2.1	8
16	Boundary integral methods for singularly perturbed boundary value problems. IMA Journal of Numerical Analysis, 2001, 21, 217-237.	2.9	6
17	A high-frequency boundary element method for scattering by a class of multiple obstacles. IMA Journal of Numerical Analysis, 2021, 41, 1197-1239.	2.9	2
18	A transformation approach for efficient evaluation of oscillatory surface integrals arising in threeâ€dimensional boundary element methods. International Journal for Numerical Methods in Engineering, 2016, 108, 93-115.	2.8	1

#	Article	IF	Citations
19	The unsteady flow of a weakly compressible fluid in a thin porous layer III: Three-dimensional computations. Quarterly Journal of Mechanics and Applied Mathematics, 2013, 66, 123-155.	1.3	0