

# Stephen Langdon

## List of Publications by Year in descending order

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19  
papers

560  
citations

759233

12  
h-index

839539

18  
g-index

19  
all docs

19  
docs citations

19  
times ranked

259  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A hybrid numericalâ€“asymptotic boundary element method for high frequency scattering by penetrable convex polygons. Wave Motion, 2018, 78, 32-53.	2.0	11
3	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
4	Hybrid numerical-asymptotic approximation for high-frequency scattering by penetrable convex polygons. IMA Journal of Applied Mathematics, 2015, 80, 324-353.	1.6	22
5	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
6	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
7	A moving mesh approach for modelling avascular tumour growth. Applied Numerical Mathematics, 2013, 72, 99-114.	2.1	8
8	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
9	A High Frequency $\$hp\$$ Boundary Element Method for Scattering by Convex Polygons. SIAM Journal on Numerical Analysis, 2013, 51, 629-653.	2.3	28
10	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
11	Numerical-asymptotic boundary integral methods in high-frequency acoustic scattering. Acta Numerica, 2012, 21, 89-305.	10.7	165
12	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
13	High frequency scattering by convex curvilinear polygons. Journal of Computational and Applied Mathematics, 2010, 234, 2020-2026.	2.0	11
14	Small- and Waiting-Time Behavior of the Thin-Film Equation. SIAM Journal on Applied Mathematics, 2007, 67, 1776-1807.	1.8	15
15	A Galerkin Boundary Element Method for High Frequency Scattering by Convex Polygons. SIAM Journal on Numerical Analysis, 2007, 45, 610-640.	2.3	79
16	A collocation method for high-frequency scattering by convex polygons. Journal of Computational and Applied Mathematics, 2007, 204, 334-343.	2.0	17
17	Efficient evaluation of highly oscillatory acoustic scattering surface integrals. Journal of Computational and Applied Mathematics, 2007, 204, 363-374.	2.0	13
18	Finite element approximation of a sixth order nonlinear degenerate parabolic equation. Numerische Mathematik, 2004, 96, 401-434.	1.9	48

#	ARTICLE	IF	CITATIONS
19	Boundary integral methods for singularly perturbed boundary value problems. IMA Journal of Numerical Analysis, 2001, 21, 217-237.	2.9	6