

# Elwin van 't Wout

## List of Publications by Year in descending order

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16  
papers

124  
citations

1307594

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1281871

11  
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16  
all docs

16  
docs citations

16  
times ranked

90  
citing authors

#	ARTICLE	IF	CITATIONS
1	A fast boundary element method for the scattering analysis of high-intensity focused ultrasound. Journal of the Acoustical Society of America, 2015, 138, 2726-2737.	1.1	26
2	Design of Temporal Basis Functions for Time Domain Integral Equation Methods With Predefined Accuracy and Smoothness. IEEE Transactions on Antennas and Propagation, 2013, 61, 271-280.	5.1	15
3	Stability analysis of the marching-on-in-time boundary element method for electromagnetics. Journal of Computational and Applied Mathematics, 2016, 294, 358-371.	2.0	15
4	A fast full-wave solver for calculating ultrasound propagation in the body. Ultrasonics, 2021, 110, 106240.	3.9	11
5	The Influence of the Exact Evaluation of Radiation Fields in Finite Precision Arithmetic on the Stability of the Time Domain Integral Equation Method. IEEE Transactions on Antennas and Propagation, 2013, 61, 6064-6074.	5.1	9
6	Computationally Efficient Boundary Element Methods for High-Frequency Helmholtz Problems in Unbounded Domains. Geosystems Mathematics, 2017, , 215-243.	0.0	8
7	Benchmarking preconditioned boundary integral formulations for acoustics. International Journal for Numerical Methods in Engineering, 2021, 122, 5873-5897.	2.8	8
8	Proximity resonances of water-entrained air bubbles near acoustically reflecting boundaries. Journal of the Acoustical Society of America, 2021, 149, 2477-2491.	1.1	7
9	The Deflated Relaxed Incomplete Cholesky CG method for use in a real-time ship simulator. Procedia Computer Science, 2010, 1, 249-257.	2.0	6
10	Towards optimal boundary integral formulations of the Poisson-Boltzmann equation for molecular electrostatics. Journal of Computational Chemistry, 2022, 43, 674-691.	3.3	5
11	Machine learning for policing: a case study on arrests in Chile. Policing and Society, 2021, 31, 1036-1050.	2.5	4
12	Boundary integral formulations for acoustic modelling of high-contrast media. Computers and Mathematics With Applications, 2022, 105, 136-149.	2.7	3
13	Frequency-robust preconditioning of boundary integral equations for acoustic transmission. Journal of Computational Physics, 2022, 462, 111229.	3.8	3
14	Stable and efficient FEM-BEM coupling with OSRC regularisation for acoustic wave transmission. Journal of Computational Physics, 2022, 450, 110867.	3.8	2
15	A provably stable MoT scheme based on quadratic spline basis functions. , 2012, , .		1
16	Accelerating frequency-domain numerical methods for weakly nonlinear focused ultrasound using nested meshes. Journal of the Acoustical Society of America, 2021, 150, 441-453.	1.1	1