

# P A Martin

## List of Publications by Year in descending order

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105  
papers

2,706  
citations

218592

26  
h-index

233338

45  
g-index

110  
all docs

110  
docs citations

110  
times ranked

1338  
citing authors

#	ARTICLE	IF	CITATIONS
1	On Fourier's Bessel series and the Kneser-Sommerfeld expansion. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 1145-1152.	1.2	4
2	On blockage coefficients: flow past a body in a pipe. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, .	1.0	7
3	Frank Rizzo and boundary integral equations. <i>Engineering Analysis With Boundary Elements</i> , 2021, 124, 137-141.	2.0	0
4	A Stroh Formalism for Small-on-Large Problems in Spherical Polar Coordinates. <i>Journal of Elasticity</i> , 2020, 138, 125-144.	0.9	2
5	Scattering by a sphere in a tube, and related problems. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 191-200.	0.5	10
6	Acoustic scattering in a rarefied gas: Solving the R13 equations in spherical polar coordinates. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 8906-8929.	1.2	0
7	Acoustics and dynamic materials. <i>Mechanics Research Communications</i> , 2020, 105, 103502.	1.0	3
8	Two-dimensional Brinkman flows and their relation to analogous Stokes flows. <i>IMA Journal of Applied Mathematics</i> , 2019, 84, 912-929.	0.8	3
9	Acoustic scattering by one bubble before 1950: Spitzer, Willis, and Division 6. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 920-926.	0.5	2
10	Antiplane elastic waves in an anisotropic half-space: Fundamental solution, multipoles and scattering problems. <i>Mechanics Research Communications</i> , 2019, 95, 104-107.	1.0	3
11	Temporally Manipulated Plasmons on Graphene. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 1051-1074.	0.8	10
12	Quadratic quantities in acoustics: Scattering cross-section and radiation force. <i>Wave Motion</i> , 2019, 86, 63-78.	1.0	7
13	On the use of approximate fundamental solutions: Connections with the method of fundamental solutions and the method of regularized Stokeslets. <i>Engineering Analysis With Boundary Elements</i> , 2019, 99, 23-28.	2.0	2
14	On in-out splitting of incident fields and the far-field behaviour of Herglotz wavefunctions. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 2961-2970.	1.2	2
15	Multiple scattering and scattering cross sections. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 995-1002.	0.5	14
16	Asymptotic Approximations for Radial Spheroidal Wavefunctions with Complex Size Parameter. <i>Studies in Applied Mathematics</i> , 2018, 140, 255-269.	1.1	0
17	Bounds on ratios of modified Bessel functions with complex arguments. <i>Journal of Mathematical Analysis and Applications</i> , 2017, 454, 429-438.	0.5	1
18	On the far-field computation of acoustic radiation forces. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 2094-2100.	0.5	6

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19	On Mixed Boundary-Value Problems in a Wedge. Quarterly Journal of Mechanics and Applied Mathematics, 2017, 70, 373-386.	0.5	3
20	The pulsating orb: solving the wave equation outside a ball. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160037.	1.0	6
21	Acoustic scattering by a sphere in the time domain. Wave Motion, 2016, 67, 68-80.	1.0	9
22	One-dimensional reflection by a semi-infinite periodic row of scatterers. Wave Motion, 2015, 58, 1-12.	1.0	14
23	A scaled mapping parabolic equation for sloping range-dependent environments. Journal of the Acoustical Society of America, 2014, 135, EL172-EL178.	0.5	6
24	Scattering from a large cylinder with an eccentrically embedded core: An orders-of-scattering approximation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 520-525.	1.1	5
25	On acoustic and electric Faraday cages. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140344.	1.0	17
26	Time-domain BEM for 3-D transient elastodynamic problems with interacting rigid movable disc-shaped inclusions. Computational Mechanics, 2014, 53, 1311-1325.	2.2	3
27	Hypersingular integral equations over a disc: Convergence of a spectral method and connection with Tranter's method. Journal of Computational and Applied Mathematics, 2014, 269, 118-131.	1.1	10
28	Shear-wave resonances in a fluid-solidsolid layered structure. Wave Motion, 2014, 51, 1161-1169.	1.0	1
29	masses on an infinite string and related one-dimensional scattering problems. Wave Motion, 2014, 51, 296-307.	1.0	6
30	Propagation in one-dimensional crystals with positional and compositional disorder. European Physical Journal B, 2013, 86, 1.	0.6	5
31	Peter Waterman and T-matrix methods. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 123, 2-7.	1.1	32
32	Singularities in auxetic elastic bimetals. Mechanics Research Communications, 2013, 47, 102-105.	1.0	4
33	Fritz Joseph Ursell. 28 April 1923 - 11 May 2012. Biographical Memoirs of Fellows of the Royal Society, 2013, 59, 407-421.	0.1	1
34	Moshinsky's shutter problem: an initial-value problem for the Klein-Gordon equation. Applicable Analysis, 2012, 91, 309-322.	0.6	0
35	Generation of Internal Gravity Waves by an Oscillating Horizontal Elliptical Plate. SIAM Journal on Applied Mathematics, 2012, 72, 725-739.	0.8	2
36	Maurice Jaswon and boundary element methods. Engineering Analysis With Boundary Elements, 2012, 36, 1699-1704.	2.0	1

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37	Two-dimensional acoustic scattering, conformal mapping, and the Rayleigh hypothesis. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 2184-2188.	0.5	11
38	Internal gravity waves, boundary integral equations and radiation conditions. <i>Wave Motion</i> , 2012, 49, 427-444.	1.0	4
39	The horn-feed problem: sound waves in a tube joined to a cone, and related problems. <i>Journal of Engineering Mathematics</i> , 2011, 71, 291-304.	0.6	5
40	Scattering by defects in an exponentially graded layer and misuse of the method of images. <i>International Journal of Solids and Structures</i> , 2011, 48, 2164-2166.	1.3	16
41	Multiple scattering of flexural waves by random configurations of inclusions in thin plates. <i>Wave Motion</i> , 2011, 48, 161-175.	1.0	21
42	Generation of internal gravity waves by an oscillating horizontal disc. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011, 467, 3406-3423.	1.0	13
43	Multiple scattering by random configurations of circular cylinders: Reflection, transmission, and effective interface conditions. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 1685-1695.	0.5	15
44	Waves around almost periodic arrangements of scatterers: Analysis of positional disorder. <i>Mathematical Methods in the Applied Sciences</i> , 2010, 33, 2215-2224.	1.2	1
45	Estimating the dynamic effective mass density of random composites. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 571-577.	0.5	37
46	Effective propagation in a one-dimensional perturbed periodic structure: comparison of several approaches. <i>Waves in Random and Complex Media</i> , 2010, 20, 634-655.	1.6	10
47	Scattering by a Cavity in an Exponentially Graded Half-Space. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2009, 76, .	1.1	42
48	Multiple scattering by multiple scatterers. <i>ESAIM: Proceedings and Surveys</i> , 2009, 26, 180-206.	0.4	0
49	Multiple scattering by random configurations of circular cylinders: Weak scattering without closure assumptions. <i>Wave Motion</i> , 2008, 45, 865-880.	1.0	24
50	On functions defined by sums of products of Bessel functions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 015207.	0.7	12
51	Stress intensity factor computation using the method of fundamental solutions: mixed-mode problems. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 69, 469-483.	1.5	21
52	On the T-matrix for scattering by small obstacles. <i>Journal of Computational and Applied Mathematics</i> , 2007, 204, 219-230.	1.1	2
53	Multiple Scattering by Multiple Spheres: A New Proof of the Lloyd-Berry Formula for the Effective Wavenumber. <i>SIAM Journal on Applied Mathematics</i> , 2006, 66, 1649-1668.	0.8	43
54	Exact Solution of Some Integral Equations over a Circular Disc. <i>Journal of Integral Equations and Applications</i> , 2006, 18, 39.	0.2	6

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55	Perturbed Cracks in Two Dimensions: A Reprise. <i>International Journal of Fracture</i> , 2006, 140, 299-303.	1.1	2
56	Acoustic waves in slender axisymmetric tubes. <i>Journal of Sound and Vibration</i> , 2005, 286, 55-68.	2.1	7
57	On flexural waves in cylindrically anisotropic elastic rods. <i>International Journal of Solids and Structures</i> , 2005, 42, 2161-2179.	1.3	9
58	Fundamental solutions for steady-state heat transfer in an exponentially graded anisotropic material. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2005, 56, 293-303.	0.7	34
59	Multiple scattering by random configurations of circular cylinders: Second-order corrections for the effective wavenumber. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 3413-3423.	0.5	93
60	On Webster's horn equation and some generalizations. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 1381-1388.	0.5	32
61	Waves in wood: axisymmetric waves in slender solids of revolution. <i>Wave Motion</i> , 2004, 40, 387-398.	1.0	10
62	ON THE SCATTERING OF SPHERICAL ELECTROMAGNETIC WAVES BY A PENETRABLE CHIRAL OBSTACLE. , 2004, , .		0
63	On Green's function for a bimaterial elastic half-plane. <i>International Journal of Solids and Structures</i> , 2003, 40, 2101-2119.	1.3	12
64	The method of fundamental solutions for scattering and radiation problems. <i>Engineering Analysis With Boundary Elements</i> , 2003, 27, 759-769.	2.0	254
65	On connections between boundary integral equations and T-matrix methods. <i>Engineering Analysis With Boundary Elements</i> , 2003, 27, 771-777.	2.0	23
66	On the scattering of point-generated electromagnetic waves by a perfectly conducting sphere, and related near-field inverse problems. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2003, 83, 129-136.	0.9	16
67	Acoustic Scattering by Inhomogeneous Obstacles. <i>SIAM Journal on Applied Mathematics</i> , 2003, 64, 297-308.	0.8	41
68	Scattering by Inhomogeneities. , 2003, , 233-238.		0
69	On Mechanical Waves Along Aluminum Conductor Steel Reinforced (ACSR) Power Lines. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2002, 69, 740-748.	1.1	8
70	On Green's function for a three-dimensional exponentially graded elastic solid. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2002, 458, 1931-1947.	1.0	84
71	Acoustic scattering by inhomogeneous spheres. <i>Journal of the Acoustical Society of America</i> , 2002, 111, 2013.	0.5	23
72	On functionally graded balls and cones. <i>Journal of Engineering Mathematics</i> , 2002, 42, 133-142.	0.6	31

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73	RECENT ADVANCES IN THE METHOD OF FUNDAMENTAL SOLUTIONS. , 2002, , .		0
74	Waves in wood: free vibrations of a wooden pole. Journal of the Mechanics and Physics of Solids, 2001, 49, 1155-1178.	2.3	33
75	On wrinkled penny-shaped cracks. Journal of the Mechanics and Physics of Solids, 2001, 49, 1481-1495.	2.3	14
76	On the diffraction of Poincaré waves. Mathematical Methods in the Applied Sciences, 2001, 24, 913-925.	1.2	10
77	The spherical-cap crack revisited. International Journal of Solids and Structures, 2001, 38, 4759-4776.	1.3	13
78	Perturbed cracks in two dimensions: An integral-equation approach. International Journal of Fracture, 2000, 104, 315-325.	1.1	28
79	Electromagnetic scattering by a homogeneous chiral obstacle: scattering relations and the far-field operator. Mathematical Methods in the Applied Sciences, 1999, 22, 1175-1188.	1.2	17
80	Reduction of free-edge stress intensities in anisotropic bimetals. International Journal of Fracture, 1998, 91, 165-177.	1.1	6
81	On the Added Mass of Rippled Discs. Journal of Engineering Mathematics, 1998, 33, 421-431.	0.6	4
82	Smoothness-relaxation strategies for singular and hypersingular integral equations. International Journal for Numerical Methods in Engineering, 1998, 42, 885-906.	1.5	54
83	Some efficient boundary integral strategies for time-harmonic wave problems in an elastic halfspace. Computer Methods in Applied Mechanics and Engineering, 1998, 164, 207-221.	3.4	10
84	On the derivation of boundary integral equations for scattering by an infinite two-dimensional rough surface. Journal of Mathematical Physics, 1998, 39, 894-912.	0.5	21
85	On potential flow past wrinkled discs. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1998, 454, 2209-2221.	1.0	14
86	Radiation of water waves by a heaving submerged horizontal disc. Journal of Fluid Mechanics, 1997, 337, 365-379.	1.4	72
87	On the derivation of boundary integral equations for scattering by an infinite one-dimensional rough surface. Journal of the Acoustical Society of America, 1997, 102, 67-77.	0.5	48
88	General formulation for light scattering by a dielectric body near a perfectly conducting surface. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 338.	0.8	20
89	HYPERSINGULAR INTEGRALS: HOW SMOOTH MUST THE DENSITY BE?. International Journal for Numerical Methods in Engineering, 1996, 39, 687-704.	1.5	119
90	Water waves incident on an infinitely long rectangular inlet. Applied Ocean Research, 1996, 18, 1-11.	1.8	13

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91	On angular-spectrum representations for scattering by infinite rough surfaces. <i>Wave Motion</i> , 1996, 24, 421-433.	1.0	27
92	Partitioning, boundary integral equations, and exact Green's functions. <i>International Journal for Numerical Methods in Engineering</i> , 1995, 38, 3483-3495.	1.5	15
93	Fluid-Solid Interaction: Acoustic Scattering by a Smooth Elastic Obstacle. <i>SIAM Journal on Applied Mathematics</i> , 1995, 55, 904-922.	0.8	82
94	Trapping of water waves by submerged plates using hypersingular integral equations. <i>Journal of Fluid Mechanics</i> , 1995, 284, 359-375.	1.4	26
95	Regularized integral equations and curvilinear boundary elements for electromagnetic wave scattering in three dimensions. <i>IEEE Transactions on Antennas and Propagation</i> , 1995, 43, 1416-1422.	3.1	28
96	Spectral methods for forward-propagating water waves in conformally-mapped channels. <i>Applied Ocean Research</i> , 1994, 16, 249-266.	1.8	13
97	A normal crack in an elastic half-space with stress-free surface. <i>Mathematical Methods in the Applied Sciences</i> , 1993, 16, 563-579.	1.2	4
98	Boundary integral equations for the scattering of electromagnetic waves by a homogeneous dielectric obstacle. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1993, 123, 185-208.	0.8	59
99	Boundary integral equations for the scattering of elastic waves by elastic inclusions with thin interface layers. <i>Journal of Nondestructive Evaluation</i> , 1992, 11, 167-174.	1.1	69
100	Reflection and transmission from porous structures under oblique wave attack. <i>Journal of Fluid Mechanics</i> , 1991, 224, 625-644.	1.4	256
101	On hypersingular boundary integral equations for certain problems in mechanics. <i>Mechanics Research Communications</i> , 1989, 16, 65-71.	1.0	35
102	Scattering of long waves by cylindrical obstacles and gratings using matched asymptotic expansions. <i>Journal of Fluid Mechanics</i> , 1988, 188, 465-490.	1.4	64
103	The discontinuity in the elastostatic displacement vector across a penny-shaped crack under arbitrary loads. <i>Journal of Elasticity</i> , 1982, 12, 201-218.	0.9	18
104	On the null-field equations for water-wave radiation problems. <i>Journal of Fluid Mechanics</i> , 1981, 113, 315.	1.4	34
105	Steady state diffusion in tubular structures: Assessment of one-dimensional models. <i>European Journal of Applied Mathematics</i> , 0, , 1-18.	1.4	1