Ioannis G Stratis

List of Publications by Year
in descending order

55 papers	594 citations	623734 14 h-index	713466 21 g-index
55 all docs	55 docs citations	55 times ranked	229 citing authors

#	Article	IF	Citations
1	Scattering relations for point sources: Acoustic and electromagnetic waves. Journal of Mathematical Physics, 2002, 43, 5683-5697.	1.1	46
2	Electromagnetic scattering by a homogeneous chiral obstacle in a chiral environment. IMA Journal of Applied Mathematics, 2000, 64, 245-258.	1.6	44
3	Electromagnetic Scattering by a Homogeneous Chiral Obstacle: Boundary Integral Equations and Low-Chirality Approximations. SIAM Journal on Applied Mathematics, 1999, 59, 1745-1762.	1.8	36
4	Electromagnetic scattering by a perfectly conducting obstacle in a homogeneous chiral environment: solvability and low-frequency theory. Mathematical Methods in the Applied Sciences, 2002, 25, 927-944.	2.3	26
5	Homogenization of Maxwell's equations in dissipative bianisotropic media. Mathematical Methods in the Applied Sciences, 2003, 26, 1241-1253.	2.3	26
6	On spherical-wave scattering by a spherical scatterer and related near-field inverse problems. IMA Journal of Applied Mathematics, 2001, 66, 539-549.	1.6	24
7	On some properties of Beltrami fields in chiral media. Reports on Mathematical Physics, 2000, 45, 257-271.	0.8	19
8	Metaplastic Breast Carcinoma in a Patient with Von Recklinghausen's Disease. Clinical Breast Cancer, 2007, 7, 573-575.	2.4	19
9	Mathematical problems of the theory of elasticity of chiral materials for Lipschitz domains. Mathematical Methods in the Applied Sciences, 2006, 29, 445-478.	2.3	18
10	Representation formulae of general solutions in the theory of hemitropic elasticity. Quarterly Journal of Mechanics and Applied Mathematics, 2006, 59, 451-474.	1.3	18
11	Electromagnetic scattering by a homogeneous chiral obstacle: scattering relations and the far-field operator. Mathematical Methods in the Applied Sciences, 1999, 22, 1175-1188.	2.3	17
12	A time domain analysis of wave motions in chiral materials. Mathematische Nachrichten, 2003, 250, 3-16.	0.8	16
13	On the scattering of point-generated electromagnetic waves by a perfectly conducting sphere, and related near-field inverse problems. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2003, 83, 129-136.	1.6	16
14	The Singular Sources Method for an Inverse Transmission Problem. Computing (Vienna/New York), 2005, 75, 237-255.	4.8	16
15	Stochastic degenerate Sobolev equations: well posedness and exact controllability. Mathematical Methods in the Applied Sciences, 2018, 41, 1025-1032.	2.3	16
16	Linear stochastic degenerate Sobolev equations and applications[â‡]. International Journal of Control, 2015, 88, 2538-2553.	1.9	15
17	Electromagnetic scattering by a chiral obstacle. IMA Journal of Applied Mathematics, 1997, 58, 83-91.	1.6	14
18	Transmission problems in the theory of elastic hemitropic materials. Applicable Analysis, 2007, 86, 1463-1508.	1.3	13

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19	On the approximate controllability of the stochastic Maxwell equations. IMA Journal of Mathematical Control and Information, 2010, 27, 103-118.	1.7	13
20	Electromagnetic fields in linear and nonlinear chiral media: a time-domain analysis. Abstract and Applied Analysis, 2004, 2004, 471-486.	0.7	12
21	On the Well-Posedness of the Maxwell System for Linear Bianisotropic Media. SIAM Journal on Mathematical Analysis, 2012, 44, 2459-2473.	1.9	12
22	Electromagnetic Scattering Problems in Chiral Media: A Review. Electromagnetics, 1999, 19, 547-562.	0.7	11
23	On the domain derivative for scattering by impenetrable obstacles in chiral media. IMA Journal of Applied Mathematics, 2003, 68, 621-635.	1.6	11
24	A priori estimates for a singular limit approximation of the constitutive laws for chiral media in the time domain. Journal of Mathematical Analysis and Applications, 2009, 355, 288-302.	1.0	11
25	Machine Learning Approaches on High Throughput NGS Data to Unveil Mechanisms of Function in Biology and Disease. Cancer Genomics and Proteomics, 2021, 18, 605-626.	2.0	11
26	On Generalized Linear Regular Delay Systems. Journal of Mathematical Analysis and Applications, 1999, 237, 505-514.	1.0	10
27	Scattering relations for point-generated dyadic fields in two-dimensional linear elasticity. Quarterly of Applied Mathematics, 2006, 64, 695-710.	0.7	10
28	An application of the reciprocity gap functional to inverse mixed impedance problems in elasticity. Inverse Problems, 2010, 26, 085011.	2.0	10
29	On Generalized Linear Singular Delay Systems. Journal of Mathematical Analysis and Applications, 2000, 245, 430-446.	1.0	9
30	3D elastic scattering theorems for point-generated dyadic fields. Mathematical Methods in the Applied Sciences, 2008, 31, 987-1003.	2.3	9
31	Interface crack problems for metallic–piezoelectric composite structures. Mathematical Methods in the Applied Sciences, 2010, 33, 539-562.	2.3	7
32	Spatiotemporal algebraically localized waveforms for a nonlinear Schrödinger model with gain and loss. Physica D: Nonlinear Phenomena, 2017, 355, 24-33.	2.8	7
33	Uniqueness of the inverse scattering problem for a chiral obstacle. International Journal of Applied Electromagnetics and Mechanics, 1998, 9, 123-133.	0.6	5
34	On an Interior Calderón Operator and a Related Steklov Eigenproblem for Maxwell's Equations. SIAM Journal on Mathematical Analysis, 2020, 52, 4140-4160.	1.9	5
35	Transmission problems in contrasting chiral media. Reports on Mathematical Physics, 2004, 53, 143-156.	0.8	4
36	Boundary integral equation methods in the theory of elasticity of hemitropic materials: A brief review. Journal of Computational and Applied Mathematics, 2010, 234, 1622-1630.	2.0	4

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37	Mixed impedance transmission problems for vibrating layered elastic bodies. Mathematical Methods in the Applied Sciences, 2015, 38, 3264-3294.	2.3	4
38	The exterior Calderón operator for non-spherical objects. SN Partial Differential Equations and Applications, 2020, 1, 1.	0.6	4
39	Pseudoparabolic equations with additive noise and applications. Mathematical Methods in the Applied Sciences, 2009, 32, 963-985.	2.3	3
40	Homogenisation theory for deterministic and random bianisotropic media. Composites Part B: Engineering, 2012, 43, 2513-2520.	12.0	3
41	Homogenization of random elliptic systems with an application to Maxwell's equations. Mathematical Models and Methods in Applied Sciences, 2015, 25, 1365-1388.	3.3	3
42	Some remarks on a class of inverse problems related to the parabolic approximation to the Maxwell equations: a controllability approach. Mathematical Methods in the Applied Sciences, 2015, 38, 3866-3878.	2.3	3
43	Nonvanishing at spatial extremity solutions of the defocusing nonlinear Schrödinger equation. Mathematical Methods in the Applied Sciences, 2019, 42, 4939-4956.	2.3	3
44	A Transmission problem for bi-isotropic media. Applicable Analysis, 2001, 77, 195-209.	1.3	2
45	Bright–Dark Vector Solitons in Chiral Media. Physica Scripta, 2002, 66, 280-283.	2.5	2
46	Point-Source Elastic Scattering by a Nested Piecewise Homogeneous Obstacle in an Elastic Environment. Mathematics and Mechanics of Solids, 2010, 15, 419-438.	2.4	2
47	Regularity of nonvanishing – at infinity or at the boundary – solutions of the defocusing nonlinear Schrödinger equation. Communications in Partial Differential Equations, 2021, 46, 233-281.	2.2	2
48	On the scattering of two-dimensional elastic point sources and related near-field inverse problems for small discs. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2009, 139, 719-741.	1.2	1
49	Chirality notions and electromagnetic scattering: a mini review. Complex Variables and Elliptic Equations, 0, , 1-33.	0.8	1
50	Rigorous Analysis of the Quasi-Steady-State Assumption in Enzyme Kinetics. Mathematics, 2022, 10, 1086.	2.2	1
51	On Equilibria of the Two-fluid Model in Magnetohydrodynamics. Mathematical Physics Analysis and Geometry, 2004, 7, 97-117.	1.0	0
52	Wave scattering by an elastic obstacle with interior cuts. Mathematische Nachrichten, 2007, 280, 996-1013.	0.8	0
53	Special Issue on Applied Mathematics. Mathematical Methods in the Applied Sciences, 2014, 37, 157-157.	2.3	0
54	A quantitative approach on the solvability of evolution problems in open sets of certain geometries. Journal of Mathematical Analysis and Applications, 2022, 506, 125663.	1.0	0

#	Article	IF	Citations
55	On the 1-dim Defocusing NLS Equation with Non-vanishing Initial Data at Infinity. Springer Proceedings in Mathematics and Statistics, 2019, , 337-362.	0.2	0