A S Fokas

List of Publications by Year in descending order

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156 papers	5,707 citations	108046 37 h-index	104191 69 g-index
162 all docs	162 docs citations	162 times ranked	1465 citing authors

#	Article	IF	Citations
1	Reconstruction of Preclinical PET Images via Chebyshev Polynomial Approximation of the Sinogram. Applied Sciences (Switzerland), 2022, 12, 3335.	1.3	3
2	A new approach to integrable evolution equations on the circle. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200605.	1.0	7
3	The implementation of the unified transform to the nonlinear SchrÃ¶dinger equation with periodic initial conditions. Letters in Mathematical Physics, 2021, 111, 1.	0.5	9
4	Easing COVID-19 lockdown measures while protecting the older restricts the deaths to the level of the full lockdown. Scientific Reports, 2021, 11, 5839.	1.6	14
5	Solving the Initial Value Problem for the 3-Wave Interaction Equations in Multidimensions. Computational Methods and Function Theory, 2021, 21, 9-39.	0.8	1
6	Doubly Localized Two-Dimensional Rogue Waves in the Daveyâ€“Stewartson I Equation. Journal of Nonlinear Science, 2021, 31, 1.	1.0	45
7	Covid-19: predictive mathematical formulae for the number of deaths during lockdown and possible scenarios for the post-lockdown period. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200745.	1.0	7
8	SARS-CoV-2: The Second Wave in Europe. Journal of Medical Internet Research, 2021, 23, e22431.	2.1	10
9	Piecewise Polynomial Inversion of the Radon Transform in Three Space Dimensions via Plane Integration and Applications in Positron Emission Tomography. Springer Optimization and Its Applications, 2021, , 381-396.	0.6	0
10	The unified transform for evolution equations on the halfâ€line with timeâ€periodic boundary conditions*. Studies in Applied Mathematics, 2021, 147, 1339-1368.	1.1	4
11	Explicit asymptotics for certain single and double exponential sums. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2020, 150, 607-632.	0.8	2
12	Electro-magnetoencephalography for a spherical multiple-shell model: novel integral operators with singular-value decompositions. Inverse Problems, 2020, 36, 035003.	1.0	2
13	A quantitative framework for exploring exit strategies from the COVID-19 lockdown. Chaos, Solitons and Fractals, 2020, 140, 110244.	2.5	21
14	Mathematical models and deep learning for predicting the number of individuals reported to be infected with SARS-CoV-2. Journal of the Royal Society Interface, 2020, 17, 20200494.	1.5	53
15	The Modified Helmholtz Equation on a Regular Hexagonâ€”The Symmetric Dirichlet Problem. Axioms, 2020, 9, 89.	0.9	1
16	A hybrid analyticalâ€“numerical algorithm for determining the neuronal current via electroencephalography. Journal of the Royal Society Interface, 2020, 17, 20190831.	1.5	4
17	Linearizable boundary value problems for the elliptic sine-Gordon and the elliptic Ernst equations. Journal of Nonlinear Mathematical Physics, 2020, 27, 337.	0.8	0
18	A Novel Integral Equation for the Riemann Zeta Function and Large t-Asymptotics. Mathematics, 2019, 7, 650.	1.1	1

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19	Relations among the Riemann Zeta and Hurwitz Zeta Functions, as Well as Their Products. Symmetry, 2019, 11, 754.	1.1	2
20	A novel approach to the LindelÃ¶f hypothesis. Transactions of Mathematics and Its Applications, 2019, 3, .	1.6	1
21	Ultra-relativistic gravity has properties associated with the strong force. European Physical Journal C, 2019, 79, 1.	1.4	2
22	The unified transform for mixed boundary condition problems in unbounded domains. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180605.	1.0	16
23	Helmholtz decomposition of the neuronal current for the ellipsoidal head model. Inverse Problems, 2019, 35, 025002.	1.0	6
24	A parallel unified transform solver based on domain decomposition for solving linear elliptic PDEs. Journal of Supercomputing, 2019, 75, 4947-4985.	2.4	0
25	Numerical Evaluation of Fokasâ€™ Transform Solution of the Heat Equation on the Half-Line. Studies in Computational Intelligence, 2019, , 245-256.	0.7	0
26	A New Approach for the Inversion of the Attenuated Radon Transform. Springer Optimization and Its Applications, 2019, , 433-457.	0.6	1
27	Generalised Dirichlet to Neumann maps for linear dispersive equations on half-line. Mathematical Proceedings of the Cambridge Philosophical Society, 2018, 164, 297-324.	0.3	4
28	Uniform asymptotics as a stationary point approaches an endpoint. IMA Journal of Applied Mathematics, 2018, 83, 204-242.	0.8	1
29	EEG for Current With Two-Dimensional Support. IEEE Transactions on Biomedical Engineering, 2018, 65, 2101-2108.	2.5	4
30	The attenuated spline reconstruction technique for single photon emission computed tomography. Journal of the Royal Society Interface, 2018, 15, 20180509.	1.5	12
31	Equations of motion of self-gravitating<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>-body systems in the first post-Minkowskian approximation. Physical Review D, 2018, 98, .	1.6	25
32	Complexification and integrability in multidimensions. Journal of Mathematical Physics, 2018, 59, 091413.	0.5	16
33	Rogue waves of the nonlocal Daveyâ€“Stewartson I equation. Nonlinearity, 2018, 31, 4090-4107.	0.6	78
34	Asymptotics to all orders of the Hurwitz zeta function. Journal of Mathematical Analysis and Applications, 2018, 465, 423-458.	0.5	5
35	Solving PDEs of fractional order using the unified transform method. Applied Mathematics and Computation, 2018, 339, 738-749.	1.4	38
36	Linear Elliptic PDEs in a Cylindrical Domain with a Polygonal Crossâ€Section. Studies in Applied Mathematics, 2017, 139, 288-321.	1.1	3

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37	Fractal analysis of tree paintings by Piet Mondrian (1872-1944). International Journal of Arts and Technology, 2017, 10, 27.	0.1	8
38	Preface: Mark J. Ablowitz, nonlinear waves and integrable systems. Part I. Studies in Applied Mathematics, 2016, 137, 3-9.	1.1	1
39	The nonlinear SchrÃ¶dinger equation on the half-line. Transactions of the American Mathematical Society, 2016, 369, 681-709.	0.5	56
40	aSRT: A new analytic reconstruction algorithm for SPECT. , 2016, , .		0
41	Preface: Mark J. Ablowitz, nonlinear waves and integrable systems. Part II. Studies in Applied Mathematics, 2016, 137, 157-158.	1.1	0
42	The Kortewegâ€“de Vries equation on the half-line. Nonlinearity, 2016, 29, 489-527.	0.6	43
43	Integrable multidimensional versions of the nonlocal nonlinear SchrÃ¶dinger equation. Nonlinearity, 2016, 29, 319-324.	0.6	209
44	The unified transform for the heat equation: II. Non-separable boundary conditions in two dimensions. European Journal of Applied Mathematics, 2015, 26, 887-916.	1.4	5
45	The nonlinear SchrÃ¶dinger equation with t -periodic data: II. Perturbative results. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140926.	1.0	14
46	Characterization of an acoustic spherical cloak. Inverse Problems, 2015, 31, 035001.	1.0	1
47	A numerical technique for linear elliptic partial differential equations in polygonal domains. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140747.	1.0	16
48	Linearisable nonlinear partial differential equations in multidimensions. Journal of Mathematical Physics, 2015, 56, 013511.	0.5	4
49	The nonlinear SchrÃ¶dinger equation with t -periodic data: I. Exact results. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140925.	1.0	16
50	The unified transform for linear, linearizable and integrable nonlinear partial differential equations. Physica Scripta, 2014, 89, 038004.	1.2	3
51	Perturbative and Exact Results on the Neumann Value for the Nonlinear SchrÃ¶dinger on the Half-line. Journal of Physics: Conference Series, 2014, 482, 012015.	0.3	1
52	Eigenvalues for the Laplace Operator in the Interior of an Equilateral Triangle. Computational Methods and Function Theory, 2014, 14, 1-33.	0.8	11
53	Boundary Value Problems for the Elliptic Sine-Gordon Equation in a Semi-strip. Journal of Nonlinear Science, 2013, 23, 241-282.	1.0	19
54	Davey-Stewartson type equations in 4+2 and 3+1 possessing soliton solutions. Journal of Mathematical Physics, 2013, 54, 081504.	0.5	22

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55	Generating mechanism for higher-order rogue waves. Physical Review E, 2013, 87, 052914.	0.8	288
56	The Laplace equation in the exterior of the Hankel contour and novel identities for hypergeometric functions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130081.	1.0	3
57	The unified method for the heat equation: I. non-separable boundary conditions and non-local constraints in one dimension. European Journal of Applied Mathematics, 2013, 24, 857-886.	1.4	18
58	The Modified Korteweg-de Vries Equation on the Half-Line with a Sine-Wave as Dirichlet Datum. Journal of Nonlinear Mathematical Physics, 2013, 20, 135.	0.8	15
59	The definite non-uniqueness results for deterministic EEG and MEG data. Inverse Problems, 2013, 29, 065012.	1.0	20
60	Electro-magneto-encephalography for the three-shell model: numerical implementation via splines for distributed current in spherical geometry. Inverse Problems, 2012, 28, 035009.	1.0	21
61	Electro-magneto-encephalography for the three-shell model: minimal L 2 -norm in spherical geometry. Inverse Problems, 2012, 28, 035010.	1.0	5
62	The Dirichlet-to-Neumann map for the elliptic sine-Gordon equation. Nonlinearity, 2012, 25, 1011-1031.	0.6	24
63	The unified method: II. NLS on the half-line witht-periodic boundary conditions. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 195202.	0.7	66
64	The unified method: I. Nonlinearizable problems on the half-line. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 195201.	0.7	94
65	ON A NOVEL CLASS OF INTEGRABLE ODEs RELATED TO THE PAINLEVÃ‰ EQUATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250211.	0.7	4
66	Water waves over a variable bottom: a non-local formulation and conformal mappings. Journal of Fluid Mechanics, 2012, 695, 288-309.	1.4	35
67	Synthesis, as Opposed to Separation, of Variables. SIAM Review, 2012, 54, 291-324.	4.2	69
68	Conformal Mappings to Multiply Connected Polycircular Arc Domains. Computational Methods and Function Theory, 2012, 11, 685-706.	0.8	15
69	The unified method: III. Nonlinearizable problems on the interval. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 195203.	0.7	31
70	Electroâ€magnetoâ€encephalography for the threeâ€shell model : a single dipole in ellipsoidal geometry. Mathematical Methods in the Applied Sciences, 2012, 35, 1415-1422.	1.2	9
71	Generalized Dirichletâ€toâ€Neumann Map in Timeâ€Dependent Domains. Studies in Applied Mathematics, 2012, 129, 51-90.	1.1	10
72	Evaluation of a Spline Reconstruction Technique for SPECT: Comparison with FBP and OSEM. , 2011, , .		4

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73	A non-local formulation of rotational water waves. Journal of Fluid Mechanics, 2011, 689, 129-148.	1.4	30
74	Boundary-value problems for the stationary axisymmetric Einstein equations: a rotating disc. Nonlinearity, 2011, 24, 177-206.	0.6	26
75	The Heat Equation in the Interior of an Equilateral Triangle. Studies in Applied Mathematics, 2010, 124, 283-305.	1.1	16
76	Laplaceâ€™s equation in the exterior of a convex polygon. The equilateral triangle. Quarterly of Applied Mathematics, 2010, 68, 645-660.	0.5	5
77	A new transform method I: domain-dependent fundamental solutions and integral representations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 2259-2281.	1.0	21
78	A new transform method II: the global relation and boundary-value problems in polar coordinates. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 2283-2307.	1.0	20
79	Evaluation of a spline reconstruction technique: Comparison with FBP, MLEM and OSEM. , 2010, , .		8
80	A spectral collocation method for the Laplace and modified Helmholtz equations in a convex polygon. IMA Journal of Numerical Analysis, 2010, 30, 1184-1205.	1.5	43
81	Explicit soliton asymptotics for the Kortewegâ€“de Vries equation on the half-line. Nonlinearity, 2010, 23, 937-976.	0.6	33
82	On a novel integrable generalization of the sine-Gordon equation. Journal of Mathematical Physics, 2010, 51, .	0.5	19
83	On a novel integrable generalization of the nonlinear SchrÃ¶dinger equation. Nonlinearity, 2009, 22, 11-27.	0.6	131
84	An integrable generalization of the nonlinear SchrÃ¶dinger equation on the half-line and solitons. Inverse Problems, 2009, 25, 115006.	1.0	88
85	Electro-magneto-encephalography and fundamental solutions. Quarterly of Applied Mathematics, 2009, 67, 771-780.	0.5	5
86	Electro-magneto-encephalography for a three-shell model: dipoles and beyond for the spherical geometry. Inverse Problems, 2009, 25, 035001.	1.0	32
87	A novel method of solution for the fluid-loaded plate. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 3667-3685.	1.0	2
88	The Davey-Stewartson Equation on the Half-Plane. Communications in Mathematical Physics, 2009, 289, 957-993.	1.0	21
89	Kadomtsevâ€“Petviashvili Equation Revisited and Integrability in 4 + 2 and 3 + 1. Studies in Applied Mathematics, 2009, 122, 347-359.	1.1	9
90	On Two Useful Identities in the Theory of Ellipsoidal Harmonics. Studies in Applied Mathematics, 2009, 123, 361-373.	1.1	5

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91	Lax pairs: a novel type of separability. Inverse Problems, 2009, 25, 123007.	1.0	17
92	Systematic construction and prediction of the arrangement of the strands of sandwich proteins. Journal of the Royal Society Interface, 2009, 6, 63-73.	1.5	5
93	Electroâ€“magneto-encephalography for a three-shell model: distributed current in arbitrary, spherical and ellipsoidal geometries. Journal of the Royal Society Interface, 2009, 6, 479-488.	1.5	35
94	The Generalized Dirichlet to Neumann Map for the KdV Equation on the Half-Line. Journal of Nonlinear Science, 2008, 18, 191-217.	1.0	26
95	Initial-boundary-value problems for linear and integrable nonlinear dispersive partial differential equations. Nonlinearity, 2008, 21, T195-T203.	0.6	33
96	The D-bar method, inversion of certain integrals and integrability in 4 + 2 and 3 + 1 dimensions. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 344006.	0.7	10
97	A unified approach to various techniques for the non-uniqueness of the inverse gravimetric problem and wavelet-based methods. Inverse Problems, 2008, 24, 045019.	1.0	66
98	Methods for Solving Elliptic PDEs in Spherical Coordinates. SIAM Journal on Applied Mathematics, 2008, 68, 1080-1096.	0.8	10
99	On the asymptotic linearization of acoustic waves. Transactions of the American Mathematical Society, 2008, 360, 6403-6445.	0.5	2
100	Generalized Dirichlet to Neumann map for moving initial-boundary value problems. Journal of Mathematical Physics, 2007, 48, 013502.	0.5	22
101	On the complementarity of electroencephalography and magnetoencephalography. Inverse Problems, 2007, 23, 2541-2549.	1.0	42
102	Nonlinear Fourier transforms, integrability and nonlocality in multidimensions. Nonlinearity, 2007, 20, 2093-2113.	0.6	17
103	Initial-boundary value problems for linear PDEs with variable coefficients. Mathematical Proceedings of the Cambridge Philosophical Society, 2007, 143, 221-242.	0.3	7
104	Quaternions, Evaluation of Integrals and Boundary Value Problems. Computational Methods and Function Theory, 2007, 7, 443-476.	0.8	12
105	The Dirichlet-to-Neumann map for the heat equation on a moving boundary. Inverse Problems, 2007, 23, 1699-1710.	1.0	19
106	Reconstruction algorithm for single photon emission computed tomography and its numerical implementation. Journal of the Royal Society Interface, 2006, 3, 45-54.	1.5	38
107	On a new non-local formulation of water waves. Journal of Fluid Mechanics, 2006, 562, 313.	1.4	109
108	Integrable Nonlinear Evolution Partial Differential Equations in4+2and3+1Dimensions. Physical Review Letters, 2006, 96, 190201.	2.9	121

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109	The Dbar formalism for certain linear non-homogeneous elliptic PDEs in two dimensions. European Journal of Applied Mathematics, 2006, 17, 323-346.	1.4	19
110	Strict rules determine arrangements of strands in sandwich proteins. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4107-4110.	3.3	14
111	THE MATHEMATICS OF THE IMAGING TECHNIQUES OF MEG, CT, PET AND SPECT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1671-1687.	0.7	3
112	Absolute and Convective Instability for Evolution PDEs on the Half-Line. Studies in Applied Mathematics, 2005, 114, 95-114.	1.1	13
113	The generalized Dirichlet-to-Neumann map for certain nonlinear evolution PDEs. Communications on Pure and Applied Mathematics, 2005, 58, 639-670.	1.2	83
114	Boundary Value Problems for Boussinesq Type Systems. Mathematical Physics Analysis and Geometry, 2005, 8, 59-96.	0.4	29
115	A geometric construction determines all permissible strand arrangements of sandwich proteins. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15851-15853.	3.3	13
116	The modified Helmholtz equation in a semi-strip. Mathematical Proceedings of the Cambridge Philosophical Society, 2005, 138, 339-365.	0.3	22
117	On the non-uniqueness of the inverse MEG problem. Inverse Problems, 2005, 21, L1-L5.	1.0	48
118	A transform method for linear evolution PDEs on a finite interval. IMA Journal of Applied Mathematics, 2005, 70, 564-587.	0.8	70
119	The nonlinear SchrÃ¶dinger equation on the half-line. Nonlinearity, 2005, 18, 1771-1822.	0.6	188
120	Zero-dispersion limit for integrable equations on the half-line with linearisable data. Abstract and Applied Analysis, 2004, 2004, 361-370.	0.3	11
121	The unique determination of neuronal currents in the brain via magnetoencephalography. Inverse Problems, 2004, 20, 1067-1082.	1.0	87
122	Prediction of the structural motifs of sandwich proteins. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16780-16783.	3.3	9
123	THE mKdV EQUATION ON THE HALF-LINE. Journal of the Institute of Mathematics of Jussieu, 2004, 3, 139-164.	0.4	73
124	Linearizable initial boundary value problems for the sine-Gordon equation on the half-line. Nonlinearity, 2004, 17, 1521-1534.	0.6	28
125	The nonlinear SchrÃ¶dinger equation on the interval. Journal of Physics A, 2004, 37, 6091-6114.	1.6	76
126	Boundary-value problems for linear PDEs with variable coefficients. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2004, 460, 1131-1151.	1.0	13

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127	Explicit integral solutions for the plane elastostatic semi-strip. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2004, 460, 1285-1309.	1.0	27
128	Analysis of the Global Relation for the Nonlinear SchrÃ¶dinger Equation on the Half-line. Letters in Mathematical Physics, 2003, 65, 199-212.	0.5	69
129	The Daveyâ€“Stewartson I equation on the quarter plane with homogeneous Dirichlet boundary conditions. Journal of Mathematical Physics, 2003, 44, 3226-3244.	0.5	5
130	Conformal Mappings and Applications. , 2003, , 311-410.		0
131	Riemannâ€“Hilbert Problems. , 2003, , 514-626.		0
132	Applications of Complex Function Theory. , 2003, , 309-310.		0
133	Fundamentals and Techniques of Complex Function Theory. , 2003, , 1-2.		0
134	Residue Calculus and Applications of Contour Integration. , 2003, , 206-308.		0
135	Complex Numbers and Elementary Functions. , 2003, , 3-31.		0
136	Analytic Functions and Integration. , 2003, , 32-108.		0
137	Sequences, Series, and Singularities of Complex Functions. , 2003, , 109-205.		0
138	Asymptotic Evaluation of Integrals. , 2003, , 411-513.		0
139	Two-point boundary value problems for linear evolution equations. Mathematical Proceedings of the Cambridge Philosophical Society, 2001, 131, 521-543.	0.3	29
140	On the integrability of linear and nonlinear partial differential equations. Journal of Mathematical Physics, 2000, 41, 4188-4237.	0.5	156
141	Integral transforms, spectral representation and the d-bar problem. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 805-833.	1.0	25
142	Integrability and Self-Similarity in Transient Stimulated Raman Scattering. Journal of Nonlinear Science, 1999, 9, 1-31.	1.0	33
143	The Cauchy problem for the Kadomtsevâ€“Petviashviliâ€“I equation without the zero mass constraint. Mathematical Proceedings of the Cambridge Philosophical Society, 1999, 125, 113-138.	0.3	33
144	The Inverse Spectral Method for Colliding Gravitational Waves. Mathematical Physics Analysis and Geometry, 1998, 1, 313-330.	0.4	12

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145	A Hele-Shaw problem and the second PainlevÃ© transcendent. Mathematical Proceedings of the Cambridge Philosophical Society, 1998, 124, 169-191.	0.3	22
146	A unified transform method for solving linear and certain nonlinear PDEs. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1997, 453, 1411-1443.	1.0	412
147	The Linearization of the Initial-Boundary Value Problem of the Nonlinear SchrÃ¶dinger Equation. SIAM Journal on Mathematical Analysis, 1996, 27, 738-764.	0.9	106
148	Integrability of linear and nonlinear evolution equations and the associated nonlinear fourier transforms. Letters in Mathematical Physics, 1994, 32, 189-210.	0.5	63
149	On the solvability of the N-wave, Davey-Stewartson and Kadomtsev-Petviashvili equations. Inverse Problems, 1992, 8, 673-708.	1.0	92
150	Inverse problem forN Ã—N hyperbolic systems on the plane and the N-wave interactions. Communications on Pure and Applied Mathematics, 1991, 44, 535-571.	1.2	21
151	Coherent structures in multidimensions. Physical Review Letters, 1989, 63, 1329-1333.	2.9	211
152	Method of Solution for a Class of Multidimensional Nonlinear Evolution Equations. Physical Review Letters, 1983, 51, 7-10.	2.9	70
153	The Inverse Scattering Transform for the Benjaminâ€Ono Equationâ€”A Pivot to Multidimensional Problems. Studies in Applied Mathematics, 1983, 68, 1-10.	1.1	146
154	On the Inverse Scattering of the Timeâ€Dependent SchrÃ¶dinger Equation and the Associated Kadomtsevâ€Petviashvili (I) Equation. Studies in Applied Mathematics, 1983, 69, 211-228.	1.1	187
155	On the Inverse Scattering Transform for the Kadomtsevâ€Petviashvili Equation. Studies in Applied Mathematics, 1983, 69, 135-143.	1.1	270
156	A Novel Non-Local Formulation of Water Waves. , 0, , 63-77.		2