Gunther Uhlmann

List of Publications by Year
in descending order

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218	9,975	34105	43889
papers	citations	52 h-index	91 g-index

223	223	223	1693
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Partial data inverse problems for quasilinear conductivity equations. Mathematische Annalen, 2023, 385, 1611-1638.	1.4	12
2	An Inverse Boundary Value Problem for a Semilinear Wave Equation on Lorentzian Manifolds. International Mathematics Research Notices, 2022, 2022, 13181-13211.	1.0	16
3	Inverse boundary value problems for wave equations with quadratic nonlinearities. Journal of Differential Equations, 2022, 309, 558-607.	2.2	6
4	Nonlinear Ultrasound Imaging Modeled by a Westervelt Equation. SIAM Journal on Applied Mathematics, 2022, 82, 408-426.	1.8	8
5	The higher order fractional CalderÃ³n problem for linear local operators: Uniqueness. Advances in Mathematics, 2022, 399, 108246.	1.1	10
6	Recovery of wave speeds and density of mass across a heterogeneous smooth interface from acoustic and elastic wave reflection operators. GEM - International Journal on Geomathematics, 2022, 13, 1.	1.6	4
7	An inverse problem for a quasilinear convectionâ€“diffusion equation. Nonlinear Analysis: Theory, Methods & Applications, 2022, 222, 112921.	1.1	3
8	Inverse problems for nonlinear hyperbolic equations. Discrete and Continuous Dynamical Systems, 2021, 41, 455-469.	0.9	10
9	Recovery of discontinuous LamÃ© parameters from exterior Cauchy data. Communications in Partial Differential Equations, 2021, 46, 680-715.	2.2	4
10	Reconstruction of the Collision Kernel in the Nonlinear Boltzmann Equation. SIAM Journal on Mathematical Analysis, 2021, 53, 1049-1069.	1.9	12
11	Travel Time Tomography in Stationary Spacetimes. Journal of Geometric Analysis, 2021, 31, 9573-9596.	1.0	0
12	The transmission problem in linear isotropic elasticity. Pure and Applied Analysis, 2021, 3, 109-161.	1.1	8
13	On an inverse boundary value problem for a nonlinear elastic wave equation. Journal Des Mathematiques Pures Et Appliquees, 2021, 153, 114-136.	1.6	16
14	The CalderÃ³n inverse problem for isotropic quasilinear conductivities. Advances in Mathematics, 2021, 391, 107956.	1.1	19
15	Reconstruction in the CalderÃ³n problem on conformally transversally anisotropic manifolds. Journal of Functional Analysis, 2021, 281, 109191.	1.4	5
16	Optimality of Increasing Stability for an Inverse Boundary Value Problem. SIAM Journal on Mathematical Analysis, 2021, 53, 7062-7080.	1.9	2
17	A remark on partial data inverse problems for semilinear elliptic equations. Proceedings of the American Mathematical Society, 2020, 148, 681-685.	0.8	48
18	Nonlinear interaction of waves in elastodynamics and an inverse problem. Mathematische Annalen, 2020, 376, 765-795.	1.4	25

#	Article	IF	Citations
19	Recovery of Material Parameters in Transversely Isotropic Media. Archive for Rational Mechanics and Analysis, 2020, 235, 141-165.	2.4	1
20	Determination of Spaceâ€Time Structures from Gravitational Perturbations. Communications on Pure and Applied Mathematics, 2020, 73, 1315-1367.	3.1	14
21	Uniqueness and reconstruction for the fractional CalderÃ³n problem with a single measurement. Journal of Functional Analysis, 2020, 279, 108505.	1.4	35
22	The CalderÃ³n problem for the fractional SchrÃ¶dinger equation. Analysis and PDE, 2020, 13, 455-475.	1.4	54
23	The CalderÃ³n problem for quasilinear elliptic equations. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2020, 37, 1143-1166.	1.4	17
24	The Light Ray Transform on Lorentzian Manifolds. Communications in Mathematical Physics, 2020, 377, 1349-1379.	2.2	7
25	Partial data inverse problems for semilinear elliptic equations with gradient nonlinearities. Mathematical Research Letters, 2020, 27, 1801-1824.	0.5	30
26	Convolutional Neural Networks in Phase Space and Inverse Problems. SIAM Journal on Applied Mathematics, 2020, 80, 2560-2585.	1.8	2
27	Nonlinear responses from the interaction of two progressing waves at an interface. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2019, 36, 347-363.	1.4	11
28	Inverting the local geodesic ray transform of higher rank tensors. Inverse Problems, 2019, 35, 115009.	2.0	3
29	Numerical Inversion of Three-Dimensional Geodesic X-Ray Transform Arising from Travel Time Tomography. SIAM Journal on Imaging Sciences, 2019, 12, 1296-1323.	2.2	0
30	Travel Time Tomography. Acta Mathematica Sinica, English Series, 2019, 35, 1085-1114.	0.6	15
31	On an inverse boundary problem arising in brain imaging. Journal of Differential Equations, 2019, 267, 2471-2502.	2.2	20
32	Stability estimates for partial data inverse problems for SchrÃ¶dinger operators in the high frequency limit. Journal Des Mathematiques Pures Et Appliquees, 2019, 126, 273-291.	1.6	8
33	Reconstruction of piecewise smooth wave speeds using multiple scattering. Transactions of the American Mathematical Society, 2019, 372, 1213-1235.	0.9	6
34	Lens Rigidity for a Particle in a Yangâ€“Mills Field. Communications in Mathematical Physics, 2019, 366, 681-707.	2.2	3
35	The geodesic X-ray transform with matrix weights. American Journal of Mathematics, 2019, 141, 1707-1750.	1.1	17
36	Inverse Problems for the Stationary Transport Equation in the Diffusion Scaling. SIAM Journal on Applied Mathematics, 2019, 79, 2340-2358.	1.8	15

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37	Scattering Control for the Wave Equation with Unknown Wave Speed. Archive for Rational Mechanics and Analysis, 2019, 231, 409-464.	2.4	11
38	Reconstruction of Lorentzian Manifolds from Boundary Light Observation Sets. International Mathematics Research Notices, 2019, 2019, 6949-6987.	1.0	18
39	Complex Geometrical Optics and CalderÃ³nâ€™s Problem. Series in Contemporary Applied Mathematics, 2019, , 107-169.	0.8	1
40	X-Ray Transform and Boundary Rigidity for Asymptotically Hyperbolic Manifolds. Annales De L'Institut Fourier, 2019, 69, 2857-2919.	0.6	8
41	On the microlocal analysis of the geodesic X-ray transform with conjugate points. Journal of Differential Geometry, 2018, 108, .	1.1	11
42	Superdimensional Metamaterial Resonators From Sub-Riemannian Geometry. SIAM Journal on Applied Mathematics, 2018, 78, 437-456.	1.8	2
43	Local recovery of the compressional and shear speeds from the hyperbolic DN map. Inverse Problems, 2018, 34, 014003.	2.0	11
44	Inversion formulas and range characterizations for the attenuated geodesic ray transform. Journal Des Mathematiques Pures Et Appliquees, 2018, 111, 161-190.	1.6	11
45	On the Inverse Problem of Finding Cosmic Strings and Other Topological Defects. Communications in Mathematical Physics, 2018, 357, 569-595.	2.2	8
46	Inverting the local geodesic X-ray transform on tensors. Journal D'Analyse Mathematique, 2018, 136, 151-208.	0.8	26
47	Inverse Problems for Magnetic SchrÃ¶dinger Operators in Transversally Anisotropic Geometries. Communications in Mathematical Physics, 2018, 361, 525-582.	2.2	13
48	Quantitative Analysis of Metal Artifacts in X-ray Tomography. SIAM Journal on Mathematical Analysis, 2018, 50, 4914-4936.	1.9	4
49	Tensor tomography in periodic slabs. Journal of Functional Analysis, 2018, 275, 288-299.	1.4	4
50	Inverse Problems for Semilinear Wave Equations on Lorentzian Manifolds. Communications in Mathematical Physics, 2018, 360, 555-609.	2.2	53
51	Inverse problems for advection diffusion equations in admissible geometries. Communications in Partial Differential Equations, 2018, 43, 585-615.	2.2	9
52	Inverse problems for Lorentzian manifolds and non-linear hyperbolic equations. Inventiones Mathematicae, 2018, 212, 781-857.	2.5	83
53	Propagation and recovery of singularities in the inverse conductivity problem. Analysis and PDE, 2018, 11, 1901-1943.	1.4	7
54	On regularized full- and partial-cloaks in acoustic scattering. Communications in Partial Differential Equations, 2017, 42, 821-851.	2.2	15

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55	An inverse problem from condensed matter physics. Inverse Problems, 2017, 33, 115011.	2.0	5
56	Full and Partial Cloaking in Electromagnetic Scattering. Archive for Rational Mechanics and Analysis, 2017, 223, 265-299.	2.4	23
57	Reducing Streaking Artifacts in Quantitative Susceptibility Mapping. SIAM Journal on Imaging Sciences, 2017, 10, 1921-1934.	2.2	4
58	Absolute continuity of the periodic SchrÃ¶dinger operator in transversal geometry. Journal of the European Mathematical Society, 2017, 19, 531-550.	1.4	1
59	Boundary rigidity with partial data. Journal of the American Mathematical Society, 2016, 29, 299-332.	3.9	52
60	Local analytic regularity in the linearized CalderÃ³n problem. Analysis and PDE, 2016, 9, 515-544.	1.4	8
61	The CalderÃ³n Problem with Partial Data for Conductivities with 3/2 Derivatives. Communications in Mathematical Physics, 2016, 348, 185-219.	2.2	16
62	The X-Ray Transform for Connections in Negative Curvature. Communications in Mathematical Physics, 2016, 343, 83-127.	2.2	20
63	The inverse problem for the local geodesic ray transform. Inventiones Mathematicae, 2016, 205, 83-120.	2.5	82
64	On the stable recovery of a metric from the hyperbolic DN map with incomplete data. Inverse Problems and Imaging, 2016, 10, 1141-1147.	1.1	5
65	Determining both sound speed and internal source in thermo- and photo-acoustic tomography. Inverse Problems, 2015, 31, 105005.	2.0	56
66	The Neumann-to-Dirichlet map in two dimensions. Advances in Mathematics, 2015, 281, 578-593.	1.1	11
67	Inverse Boundary Value Problem for the Stokes and the Navierâ€“Stokes Equations in the Plane. Archive for Rational Mechanics and Analysis, 2015, 215, 811-829.	2.4	13
68	Invariant distributions, Beurling transforms and tensor tomography in higher dimensions. Mathematische Annalen, 2015, 363, 305-362.	1.4	33
69	Regularized Transformation-Optics Cloaking for the Helmholtz Equation: From Partial Cloak to Full Cloak. Communications in Mathematical Physics, 2015, 335, 671-712.	2.2	17
70	On the Range of the Attenuated Ray Transform for Unitary Connections. International Mathematics Research Notices, 2015, 2015, 873-897.	1.0	14
71	On Lp Resolvent Estimates for Elliptic Operators on Compact Manifolds. Communications in Partial Differential Equations, 2015, 40, 438-474.	2.2	5
72	The Geodesic Ray Transform on Riemannian Surfaces with Conjugate Points. Communications in Mathematical Physics, 2015, 337, 1491-1513.	2.2	24

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73	An inverse kinematic problem with internal sources. Inverse Problems, 2015, 31, 055006.	2.0	5
74	Reconstruction of a Fully Anisotropic Elasticity Tensor from Knowledge of Displacement Fields. SIAM Journal on Applied Mathematics, 2015, 75, 2214-2231.	1.8	15
75	Wave Phenomena. , 2015, , 1205-1252.		0
76	Inverse Boundary Problems for Electromagnetic Waves. , 2015, , 716-725.		0
77	Inverse boundary value problems for the perturbed polyharmonic operator. Transactions of the American Mathematical Society, 2014, 366, 95-112.	0.9	35
78	Uniqueness for the inverse backscattering problem for angularly controlled potentials. Inverse Problems, 2014, 30, 065005.	2.0	15
79	Uniqueness in an Inverse Boundary Problem for a Magnetic SchrÃ¶dinger Operator with a Bounded Magnetic Potential. Communications in Mathematical Physics, 2014, 327, 993-1009.	2.2	41
80	Tensor tomography: Progress and challenges. Chinese Annals of Mathematics Series B, 2014, 35, 399-428.	0.4	47
81	Inverse problems: seeing the unseen. Bulletin of Mathematical Sciences, 2014, 4, 209-279.	0.7	81
82	Spectral rigidity and invariant distributions on Anosov surfaces. Journal of Differential Geometry, 2014, 98, .	1.1	21
83	Photoacoustic and thermoacoustic tomography with an uncertain wave speed. Mathematical Research Letters, 2014, 21, 1199-1214.	0.5	10
84	Tensor tomography on surfaces. Inventiones Mathematicae, 2013, 193, 229-247.	2.5	66
85	Inverse Boundary Problems for Systems in Two Dimensions. Annales Henri Poincare, 2013, 14, 1551-1571.	1.7	13
86	Reconstruction of Coefficients in Scalar Secondâ€Order Elliptic Equations from Knowledge of Their Solutions. Communications on Pure and Applied Mathematics, 2013, 66, 1629-1652.	3.1	65
87	Is a Curved Flight Path in SAR Better than a Straight One?. SIAM Journal on Applied Mathematics, 2013, 73, 1596-1612.	1.8	36
88	Multiscale Discrete Approximations of Fourier Integral Operators Associated with Canonical Transformations and Caustics. Multiscale Modeling and Simulation, 2013, 11, 566-585.	1.6	10
89	Recovery of a source term or a speed with one measurement and applications. Transactions of the American Mathematical Society, 2013, 365, 5737-5758.	0.9	58
90	Increasing stability in an inverse problem for the acoustic equation. Inverse Problems, 2013, 29, 025012.	2.0	33

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91	Instability of the linearized problem in multiwave tomography of recovery both the source and the speed. Inverse Problems and Imaging, 2013, 7, 1367-1377.	1.1	30
92	On uniqueness of LamÃ© coefficients from partial Cauchy data in three dimensions. Inverse Problems, 2012, 28, 125002.	2.0	15
93	Cloaked electromagnetic, acoustic, and quantum amplifiers via transformation optics. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10169-10174.	7.1	45
94	The attenuated ray transform for connections and Higgs fields. Geometric and Functional Analysis, 2012, 22, 1460-1489.	1.8	43
95	Regularity and multi-scale discretization of the solution construction of hyperbolic evolution equations with limited smoothness. Applied and Computational Harmonic Analysis, 2012, 33, 330-353.	2.2	3
96	The geodesic X-ray transform with fold caustics. Analysis and PDE, 2012, 5, 219-260.	1.4	30
97	Partial Cauchy Data for General Second Order Elliptic Operators in Two Dimensions. Publications of the Research Institute for Mathematical Sciences, 2012, 48, 971-1055.	0.8	18
98	Inverse Problems With Partial Data for a Magnetic SchrÃ¶dinger Operator in an Infinite Slab and on a Bounded Domain. Communications in Mathematical Physics, 2012, 312, 87-126.	2.2	28
99	Reconstructions for some coupled-physics inverse problems. Applied Mathematics Letters, 2012, 25, 1030-1033.	2.7	23
100	Determining a first order perturbation of the biharmonic operator by partial boundary measurements. Journal of Functional Analysis, 2012, 262, 1781-1801.	1.4	37
101	Approximate Quantum and Acoustic Cloaking. Journal of Spectral Theory, 2011, 1, 27-80.	0.8	17
102	Decoupling of Modes for the Elastic Wave Equation in Media of Limited Smoothness. Communications in Partial Differential Equations, 2011, 36, 1683-1693.	2.2	8
103	Thermoacoustic tomography arising in brain imaging. Inverse Problems, 2011, 27, 045004.	2.0	69
104	Quantitative thermo-acoustics and related problems. Inverse Problems, 2011, 27, 055007.	2.0	40
105	An adaptive phase space method with application to reflection traveltime tomography. Inverse Problems, 2011, 27, 115002.	2.0	12
106	Cloaking a sensor for three-dimensional Maxwellâ€™s equations: transformation optics approach. Optics Express, 2011, 19, 20518.	3.4	17
107	Reconstruction of Penetrable Obstacles in Acoustic Scattering. SIAM Journal on Mathematical Analysis, 2011, 43, 189-211.	1.9	19
108	An Efficient Neumann Seriesâ€“Based Algorithm for Thermoacoustic and Photoacoustic Tomography with Variable Sound Speed. SIAM Journal on Imaging Sciences, 2011, 4, 850-883.	2.2	84

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109	POLARIZATION-INVARIANT DIRECTIONAL CLOAKING BY TRANSFORMATION OPTICS. Progress in Electromagnetics Research, 2011, 118, 415-423.	4.4	13
110	Inverse problems for the anisotropic Maxwell equations. Duke Mathematical Journal, 2011, 157, .	1.5	49
111	Inverse Problems for Differential Forms on Riemannian Manifolds with Boundary. Communications in Partial Differential Equations, 2011, 36, 1475-1509.	2.2	6
112	Cloaking a sensor via transformation optics. Physical Review E, 2011, 83, 016603.	2.1	58
113	Inverse boundary value problem by measuring Dirichlet data and Neumann data on disjoint sets. Inverse Problems, 2011, 27, 085007.	2.0	19
114	Determination of second-order elliptic operators in two dimensions from partial Cauchy data. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 467-472.	7.1	25
115	Reconstructions from boundary measurements on admissible manifolds. Inverse Problems and Imaging, 2011, 5, 859-877.	1.1	15
116	The Attenuated Ray Transform on Simple Surfaces. Journal of Differential Geometry, 2011, 88, .	1.1	50
117	Wave Phenomena. , 2011, , 867-909.		0
118	Universal multiâ€•scale computations of Fourier integral operators for coherent imaging in caustics. , 2011, , .		0
119	Inverse scattering for the magnetic SchrÃ¶dinger operator. Journal of Functional Analysis, 2010, 259, 1771-1798.	1.4	19
120	The CalderÃ³n problem with partial data in two dimensions. Journal of the American Mathematical Society, 2010, 23, 655-691.	3.9	100
121	Rigidity of broken geodesic flow and inverse problems. American Journal of Mathematics, 2010, 132, 529-562.	1.1	21
122	Inverse diffusion theory of photoacoustics. Inverse Problems, 2010, 26, 085010.	2.0	91
123	Reconstructing the metric and magnetic field from the scattering relation. Inverse Problems and Imaging, 2010, 4, 397-409.	1.1	14
124	Inverse problems with partial data in a slab. Inverse Problems and Imaging, 2010, 4, 449-462.	1.1	29
125	A depth-dependent stability estimate in electrical impedance tomography. Inverse Problems, 2009, 25, 075001.	2.0	20
126	Thermoacoustic tomography with variable sound speed. Inverse Problems, 2009, 25, 075011.	2.0	183

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127	Limiting Carleman weights and anisotropic inverse problems. Inventiones Mathematicae, 2009, 178, 119-171.	2.5	135
128	Linearizing non-linear inverse problems and an application to inverse backscattering. Journal of Functional Analysis, 2009, 256, 2842-2866.	1.4	26
129	Reconstruction of inclusions in an elastic body. Journal Des Mathematiques Pures Et Appliquees, 2009, 91, 569-582.	1.6	15
130	Cloaking Devices, Electromagnetic Wormholes, and Transformation Optics. SIAM Review, 2009, 51, 3-33.	9.5	206
131	Local lens rigidity with incomplete data for a class of non-simple Riemannian manifolds. Journal of Differential Geometry, 2009, 82, .	1.1	37
132	On the linearized local CalderÃ³n problem. Mathematical Research Letters, 2009, 16, 955-970.	0.5	30
133	Electromagnetic Wormholes via Handlebody Constructions. Communications in Mathematical Physics, 2008, 281, 369-385.	2.2	25
134	The X-Ray Transform for a Generic Family ofÂCurvesÂandÂWeights. Journal of Geometric Analysis, 2008, 18, 89-108.	1.0	75
135	Approximate Quantum Cloaking and Almost-Trapped States. Physical Review Letters, 2008, 101, 220404.	7.8	81
136	Invisibility and inverse problems. Bulletin of the American Mathematical Society, 2008, 46, 55-97.	1.5	106
137	Reconstructing Discontinuities Using Complex Geometrical Optics Solutions. SIAM Journal on Applied Mathematics, 2008, 68, 1026-1044.	1.8	43
138	Integral Geometry of Tensor Fields on a Class of Non-Simple Riemannian Manifolds. American Journal of Mathematics, 2008, 130, 239-268.	1.1	45
139	A Multi-Scale Approach to Hyperbolic Evolution Equations with Limited Smoothness. Communications in Partial Differential Equations, 2008, 33, 988-1017.	2.2	34
140	Isotropic transformation optics: approximate acoustic and quantum cloaking. New Journal of Physics, 2008, 10, 115024.	2.9	86
141	Boundary and lens rigidity, tensor tomography and analytic microlocal analysis. , 2008, , 275-293.		13
142	A new phase space method for recovering index of refraction from travel times. Inverse Problems, 2007, 23, 309-329.	2.0	14
143	Reconstruction of discontinuities in systems. Journal of Physics: Conference Series, 2007, 73, 012024.	0.4	2
144	Complex Spherical Waves for the Elasticity System and Probing of Inclusions. SIAM Journal on Mathematical Analysis, 2007, 38, 1967-1980.	1.9	19

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145	Probing for electrical inclusions with complex spherical waves. Communications on Pure and Applied Mathematics, 2007, 60, 1415-1442.	3.1	46
146	Parametrices for symmetric systems with multiplicity. Wave Motion, 2007, 44, 231-247.	2.0	2
147	Electromagnetic Wormholes and Virtual Magnetic Monopoles from Metamaterials. Physical Review Letters, 2007, 99, 183901.	7.8	220
148	Determining a Magnetic SchrÃ¶dinger Operator from Partial Cauchy Data. Communications in Mathematical Physics, 2007, 271, 467-488.	2.2	93
149	Full-Wave Invisibility of Active Devices at All Frequencies. Communications in Mathematical Physics, 2007, 275, 749-789.	2.2	206
150	The boundary rigidity problem in the presence of a magnetic field. Advances in Mathematics, 2007, 216, 535-609.	1.1	46
151	Reconstruction of obstacles immersed in an incompressible fluid. Inverse Problems and Imaging, 2007, 1, 63-76.	1.1	18
152	The CalderÃ³n problem with partial data. Annals of Mathematics, 2007, 165, 567-591.	4.2	254
153	Characterization and `Source-Receiver' Continuation of Seismic Reflection Data. Communications in Mathematical Physics, 2006, 263, 1-19.	2.2	7
154	Boundary rigidity and stability for generic simple metrics. Journal of the American Mathematical Society, 2005, 18, 975-1003.	3.9	100
155	Recent progress on the boundary rigidity problem. Electronic Research Announcements in Mathematical Sciences, 2005, 11, 64-70.	0.7	17
156	Oscillatingâ€“decaying solutions, Runge approximation property for the anisotropic elasticity system and their applications to inverse problems. Journal Des Mathematiques Pures Et Appliquees, 2005, 84, 21-54.	1.6	19
157	Two dimensional compact simple Riemannian manifolds are boundary distance rigid. Annals of Mathematics, 2005, 161, 1093-1110.	4.2	128
158	Reconstruction of cracks in an inhomogeneous anisotropic medium using point sources. Advances in Applied Mathematics, 2005, 34, 591-615.	0.7	3
159	Regularity of ghosts in tensor tomography. Journal of Geometric Analysis, 2005, 15, 499-542.	1.0	23
160	Title is missing!. International Mathematics Research Notices, 2005, 2005, 1047.	1.0	48
161	Reconstruction of the potential from partial Cauchy data for the Schroedinger equation. Indiana University Mathematics Journal, 2004, 53, 169-184.	0.9	42
162	Stability estimates for the X-ray transform of tensor fields and boundary rigidity. Duke Mathematical Journal, 2004, 123, 445.	1.5	87

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163	Title is missing!. International Mathematics Research Notices, 2004, 2004, 4331.	1.0	58
164	Inverse Problems for the Pauli Hamiltonian in Two Dimensions. Journal of Fourier Analysis and Applications, 2004, 10, 201-215.	1.0	13
165	Hyperbolic geometry and local Dirichletâ€“Neumann map. Advances in Mathematics, 2004, 188, 294-314.	1.1	18
166	Inverse scattering problem in nuclear physicsâ€”Optical model. Journal of Mathematical Physics, 2004, 45, 2613-2632.	1.1	6
167	The Cauchy Data and the Scattering Relation. The IMA Volumes in Mathematics and Its Applications, 2004, , 263-287.	0.5	8
168	On the Local Dirichlet-to-Neumann Map. , 2004, , 261-279.		1
169	The boundary distance function and the Dirichlet-to-Neumann map. Mathematical Research Letters, 2004, 11, 285-297.	0.5	5
170	Semiglobal boundary rigidity for Riemannian metrics. Mathematische Annalen, 2003, 325, 767-793.	1.4	50
171	Propagation of polarization in elastodynamics with residual stress and travel times. Mathematische Annalen, 2003, 326, 563-587.	1.4	26
172	The CalderÃ³n problem for conormal potentials I: Global uniqueness and reconstruction. Communications on Pure and Applied Mathematics, 2003, 56, 328-352.	3.1	60
173	Reconstruction of cracks in an inhomogeneous anisotropic elastic medium. Journal Des Mathematiques Pures Et Appliquees, 2003, 82, 1251-1276.	1.6	4
174	Boundary determination of a Riemannian metric by the localized boundary distance function. Advances in Applied Mathematics, 2003, 31, 379-387.	0.7	9
175	Anisotropic conductivities that cannot be detected by EIT. Physiological Measurement, 2003, 24, 413-419.	2.1	304
176	Anisotropic inverse problems in two dimensions. Inverse Problems, 2003, 19, 1001-1010.	2.0	41
177	Complex geometrical optics solutions for Lipschitz conductivities. Revista Matematica Iberoamericana, 2003, 19, 57-72.	0.9	78
178	Inverse Boundary Problems in Two Dimensions. , 2003, , 183-203.		3
179	The Dirichlet-to-Neumann map for complete Riemannian manifolds with boundary. Communications in Analysis and Geometry, 2003, 11, 207-221.	0.4	99
180	On nonuniqueness for CalderÃ³nâ€™s inverse problem. Mathematical Research Letters, 2003, 10, 685-693.	0.5	350

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181	The Inverse Kinematic Problem in Anisotropic Media. , 2003, , 39-45.		0
182	Low-energy inverse problems in three-body scattering. Inverse Problems, 2002, 18, 719-736.	2.0	10
183	RECOVERING A POTENTIAL FROM PARTIAL CAUCHY DATA. Communications in Partial Differential Equations, 2002, 27, 653-668.	2.2	157
184	Scattering by a Metric1. , 2002, , 1668-1677.		6
185	A time-dependent approach to the inverse backscattering problem. Inverse Problems, 2001, 17, 703-716.	2.0	15
186	Characteristic space-time estimates for the wave equation. Mathematische Zeitschrift, 2001, 236, 113-131.	0.9	3
187	On determining a Riemannian manifold from the Dirichlet-to-Neumann map. Annales Scientifiques De L'Ecole Normale Superieure, 2001, 34, 771-787.	0.8	132
188	The x-ray transform for a non-Abelian connection in two dimensions. Inverse Problems, 2001, 17, 695-701.	2.0	18
189	Local uniqueness for the Dirichlet-to-Neumann map via the two-plane transform. Duke Mathematical Journal, 2001, 108, .	1.5	32
190	On Deformation Boundary Rigidity and Spectral Rigidity of Riemannian Surfaces with No Focal Points. Journal of Differential Geometry, 2000, 56, 93.	1.1	34
191	Inverse Scattering in Anisotropic Media. , 2000, , 235-251.		6
192	Layer Stripping for a Transversely Isotropic Elastic Medium. SIAM Journal on Applied Mathematics, 1999, 59, 1879-1891.	1.8	34
193	Stability Estimates for the Hyperbolic Dirichlet to Neumann Map in Anisotropic Media. Journal of Functional Analysis, 1998, 154, 330-358.	1.4	65
194	Uniqueness for a wave propagation inverse problem in a half-space. Inverse Problems, 1998, 14, 679-684.	2.0	21
195	Rigidity for metrics with the same lengths of geodesics. Mathematical Research Letters, 1998, 5, 83-96.	0.5	65
196	Inverse Backscattering for the Acoustic Equation. SIAM Journal on Mathematical Analysis, 1997, 28, 1191-1204.	1.9	34
197	Inverse problems in quasilinear anisotropic media. American Journal of Mathematics, 1997, 119, 771-797.	1.1	70
198	A Layer Stripping Algorithm in Elastic Impedance Tomography. The IMA Volumes in Mathematics and Its Applications, 1997, , 375-384.	0.5	10

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199	Global identifiability for an inverse problem for the Schrï¿½dinger equation in a magnetic field. Mathematische Annalen, 1995, 303, 377-388.	1.4	97
200	Inverse Problems at the Boundary for an Elastic Medium. SIAM Journal on Mathematical Analysis, 1995, 26, 263-279.	1.9	72
201	Global uniqueness for an inverse boundary problem arising in elasticity. Inventiones Mathematicae, 1994, 118, 457-474.	2.5	111
202	Recovering singularities of a potential from singularities of scattering data. Communications in Mathematical Physics, 1993, 157, 549-572.	2.2	53
203	Recovery of singularities for formally determined inverse problems. Communications in Mathematical Physics, 1993, 153, 431-445.	2.2	63
204	Identification of Lame Parameters by Boundary Measurements. American Journal of Mathematics, 1993, 115, 1161.	1.1	74
205	Inverse scattering for singular potentials in two dimensions. Transactions of the American Mathematical Society, 1993, 338, 363-374.	0.9	15
206	An inverse boundary value problem for Maxwell's equations. Archive for Rational Mechanics and Analysis, 1992, 119, 71-93.	2.4	43
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208	Composition of some singular Fourier integral operators and estimates for restricted X-ray transforms, II. Duke Mathematical Journal, 1991, 64, 415.	1.5	13
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