

Gunther Uhlmann

List of Publications by Year in descending order

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218
papers

9,975
citations

34105

52
h-index

43889

91
g-index

223
all docs

223
docs citations

223
times ranked

1693
citing authors

#	ARTICLE	IF	CITATIONS
1	A Global Uniqueness Theorem for an Inverse Boundary Value Problem. <i>Annals of Mathematics</i> , 1987, 125, 153.	4.2	1,048
2	On nonuniqueness for Calderón's inverse problem. <i>Mathematical Research Letters</i> , 2003, 10, 685-693.	0.5	350
3	Anisotropic conductivities that cannot be detected by EIT. <i>Physiological Measurement</i> , 2003, 24, 413-419.	2.1	304
4	Determining anisotropic real-analytic conductivities by boundary measurements. <i>Communications on Pure and Applied Mathematics</i> , 1989, 42, 1097-1112.	3.1	261
5	The Calderón problem with partial data. <i>Annals of Mathematics</i> , 2007, 165, 567-591.	4.2	254
6	Electromagnetic Wormholes and Virtual Magnetic Monopoles from Metamaterials. <i>Physical Review Letters</i> , 2007, 99, 183901.	7.8	220
7	Full-Wave Invisibility of Active Devices at All Frequencies. <i>Communications in Mathematical Physics</i> , 2007, 275, 749-789.	2.2	206
8	Cloaking Devices, Electromagnetic Wormholes, and Transformation Optics. <i>SIAM Review</i> , 2009, 51, 3-33.	9.5	206
9	Thermoacoustic tomography with variable sound speed. <i>Inverse Problems</i> , 2009, 25, 075011.	2.0	183
10	A uniqueness theorem for an inverse boundary value problem in electrical prospection. <i>Communications on Pure and Applied Mathematics</i> , 1986, 39, 91-112.	3.1	182
11	n -dimensional Borg-Levinson theorem. <i>Communications in Mathematical Physics</i> , 1988, 115, 595-605.	2.2	163
12	Inverse boundary value problems at the boundary with continuous dependence. <i>Communications on Pure and Applied Mathematics</i> , 1988, 41, 197-219.	3.1	158
13	RECOVERING A POTENTIAL FROM PARTIAL CAUCHY DATA. <i>Communications in Partial Differential Equations</i> , 2002, 27, 653-668.	2.2	157
14	Limiting Carleman weights and anisotropic inverse problems. <i>Inventiones Mathematicae</i> , 2009, 178, 119-171.	2.5	135
15	On determining a Riemannian manifold from the Dirichlet-to-Neumann map. <i>Annales Scientifiques De L'Ecole Normale Supérieure</i> , 2001, 34, 771-787.	0.8	132
16	Two dimensional compact simple Riemannian manifolds are boundary distance rigid. <i>Annals of Mathematics</i> , 2005, 161, 1093-1110.	4.2	128
17	Estimates for singular radon transforms and pseudodifferential operators with singular symbols. <i>Journal of Functional Analysis</i> , 1990, 89, 202-232.	1.4	111
18	Global uniqueness for an inverse boundary problem arising in elasticity. <i>Inventiones Mathematicae</i> , 1994, 118, 457-474.	2.5	111

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19	Invisibility and inverse problems. <i>Bulletin of the American Mathematical Society</i> , 2008, 46, 55-97.	1.5	106
20	Nonlocal inversion formulas for the X-ray transform. <i>Duke Mathematical Journal</i> , 1989, 58, 205.	1.5	105
21	Boundary rigidity and stability for generic simple metrics. <i>Journal of the American Mathematical Society</i> , 2005, 18, 975-1003.	3.9	100
22	The Calderón problem with partial data in two dimensions. <i>Journal of the American Mathematical Society</i> , 2010, 23, 655-691.	3.9	100
23	The Dirichlet-to-Neumann map for complete Riemannian manifolds with boundary. <i>Communications in Analysis and Geometry</i> , 2003, 11, 207-221.	0.4	99
24	Global identifiability for an inverse problem for the Schrödinger equation in a magnetic field. <i>Mathematische Annalen</i> , 1995, 303, 377-388.	1.4	97
25	Determining a Magnetic Schrödinger Operator from Partial Cauchy Data. <i>Communications in Mathematical Physics</i> , 2007, 271, 467-488.	2.2	93
26	Inverse diffusion theory of photoacoustics. <i>Inverse Problems</i> , 2010, 26, 085010.	2.0	91
27	Stability estimates for the X-ray transform of tensor fields and boundary rigidity. <i>Duke Mathematical Journal</i> , 2004, 123, 445.	1.5	87
28	Isotropic transformation optics: approximate acoustic and quantum cloaking. <i>New Journal of Physics</i> , 2008, 10, 115024.	2.9	86
29	An Efficient Neumann Series-Based Algorithm for Thermoacoustic and Photoacoustic Tomography with Variable Sound Speed. <i>SIAM Journal on Imaging Sciences</i> , 2011, 4, 850-883.	2.2	84
30	Inverse problems for Lorentzian manifolds and non-linear hyperbolic equations. <i>Inventiones Mathematicae</i> , 2018, 212, 781-857.	2.5	83
31	The inverse problem for the local geodesic ray transform. <i>Inventiones Mathematicae</i> , 2016, 205, 83-120.	2.5	82
32	Approximate Quantum Cloaking and Almost-Trapped States. <i>Physical Review Letters</i> , 2008, 101, 220404.	7.8	81
33	Inverse problems: seeing the unseen. <i>Bulletin of Mathematical Sciences</i> , 2014, 4, 209-279.	0.7	81
34	Complex geometrical optics solutions for Lipschitz conductivities. <i>Revista Matemática Iberoamericana</i> , 2003, 19, 57-72.	0.9	78
35	The X-Ray Transform for a Generic Family of Curves and Weights. <i>Journal of Geometric Analysis</i> , 2008, 18, 89-108.	1.0	75
36	Identification of Lamé Parameters by Boundary Measurements. <i>American Journal of Mathematics</i> , 1993, 115, 1161.	1.1	74

#	ARTICLE	IF	CITATIONS
37	Inverse Problems at the Boundary for an Elastic Medium. SIAM Journal on Mathematical Analysis, 1995, 26, 263-279.	1.9	72
38	Inverse problems in quasilinear anisotropic media. American Journal of Mathematics, 1997, 119, 771-797.	1.1	70
39	Thermoacoustic tomography arising in brain imaging. Inverse Problems, 2011, 27, 045004.	2.0	69
40	Tensor tomography on surfaces. Inventiones Mathematicae, 2013, 193, 229-247.	2.5	66
41	Stability Estimates for the Hyperbolic Dirichlet to Neumann Map in Anisotropic Media. Journal of Functional Analysis, 1998, 154, 330-358.	1.4	65
42	Reconstruction of Coefficients in Scalar Second-Order Elliptic Equations from Knowledge of Their Solutions. Communications on Pure and Applied Mathematics, 2013, 66, 1629-1652.	3.1	65
43	Rigidity for metrics with the same lengths of geodesics. Mathematical Research Letters, 1998, 5, 83-96.	0.5	65
44	Recovery of singularities for formally determined inverse problems. Communications in Mathematical Physics, 1993, 153, 431-445.	2.2	63
45	The Calderón problem for conormal potentials I: Global uniqueness and reconstruction. Communications on Pure and Applied Mathematics, 2003, 56, 328-352.	3.1	60
46	Title is missing!. International Mathematics Research Notices, 2004, 2004, 4331.	1.0	58
47	Cloaking a sensor via transformation optics. Physical Review E, 2011, 83, 016603.	2.1	58
48	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
49	Generic uniqueness for an inverse boundary value problem. Duke Mathematical Journal, 1991, 62, 131.	1.5	57
50	Determining both sound speed and internal source in thermo- and photo-acoustic tomography. Inverse Problems, 2015, 31, 105005.	2.0	56
51	The Calderón problem for the fractional Schrödinger equation. Analysis and PDE, 2020, 13, 455-475.	1.4	54
52	Recovering singularities of a potential from singularities of scattering data. Communications in Mathematical Physics, 1993, 157, 549-572.	2.2	53
53	Inverse Problems for Semilinear Wave Equations on Lorentzian Manifolds. Communications in Mathematical Physics, 2018, 360, 555-609.	2.2	53
54	Boundary rigidity with partial data. Journal of the American Mathematical Society, 2016, 29, 299-332.	3.9	52

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55	Semiglobal boundary rigidity for Riemannian metrics. <i>Mathematische Annalen</i> , 2003, 325, 767-793.	1.4	50
56	The Attenuated Ray Transform on Simple Surfaces. <i>Journal of Differential Geometry</i> , 2011, 88, .	1.1	50
57	Composition of some singular Fourier integral operators and estimates for restricted X-ray transforms. <i>Annales De L'Institut Fourier</i> , 1990, 40, 443-466.	0.6	50
58	Inverse problems for the anisotropic Maxwell equations. <i>Duke Mathematical Journal</i> , 2011, 157, .	1.5	49
59	Title is missing!. <i>International Mathematics Research Notices</i> , 2005, 2005, 1047.	1.0	48
60	A remark on partial data inverse problems for semilinear elliptic equations. <i>Proceedings of the American Mathematical Society</i> , 2020, 148, 681-685.	0.8	48
61	Tensor tomography: Progress and challenges. <i>Chinese Annals of Mathematics Series B</i> , 2014, 35, 399-428.	0.4	47
62	Probing for electrical inclusions with complex spherical waves. <i>Communications on Pure and Applied Mathematics</i> , 2007, 60, 1415-1442.	3.1	46
63	The boundary rigidity problem in the presence of a magnetic field. <i>Advances in Mathematics</i> , 2007, 216, 535-609.	1.1	46
64	Integral Geometry of Tensor Fields on a Class of Non-Simple Riemannian Manifolds. <i>American Journal of Mathematics</i> , 2008, 130, 239-268.	1.1	45
65	Cloaked electromagnetic, acoustic, and quantum amplifiers via transformation optics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10169-10174.	7.1	45
66	An inverse boundary value problem for Maxwell's equations. <i>Archive for Rational Mechanics and Analysis</i> , 1992, 119, 71-93.	2.4	43
67	Reconstructing Discontinuities Using Complex Geometrical Optics Solutions. <i>SIAM Journal on Applied Mathematics</i> , 2008, 68, 1026-1044.	1.8	43
68	The attenuated ray transform for connections and Higgs fields. <i>Geometric and Functional Analysis</i> , 2012, 22, 1460-1489.	1.8	43
69	Reconstruction of the potential from partial Cauchy data for the Schroedinger equation. <i>Indiana University Mathematics Journal</i> , 2004, 53, 169-184.	0.9	42
70	Anisotropic inverse problems in two dimensions. <i>Inverse Problems</i> , 2003, 19, 1001-1010.	2.0	41
71	Uniqueness in an Inverse Boundary Problem for a Magnetic Schrödinger Operator with a Bounded Magnetic Potential. <i>Communications in Mathematical Physics</i> , 2014, 327, 993-1009.	2.2	41
72	Quantitative thermo-acoustics and related problems. <i>Inverse Problems</i> , 2011, 27, 055007.	2.0	40

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73	Determining a first order perturbation of the biharmonic operator by partial boundary measurements. <i>Journal of Functional Analysis</i> , 2012, 262, 1781-1801.	1.4	37
74	Local lens rigidity with incomplete data for a class of non-simple Riemannian manifolds. <i>Journal of Differential Geometry</i> , 2009, 82, .	1.1	37
75	Is a Curved Flight Path in SAR Better than a Straight One?. <i>SIAM Journal on Applied Mathematics</i> , 2013, 73, 1596-1612.	1.8	36
76	Inverse boundary value problems for the perturbed polyharmonic operator. <i>Transactions of the American Mathematical Society</i> , 2014, 366, 95-112.	0.9	35
77	Uniqueness and reconstruction for the fractional Calderón problem with a single measurement. <i>Journal of Functional Analysis</i> , 2020, 279, 108505.	1.4	35
78	Inverse Backscattering for the Acoustic Equation. <i>SIAM Journal on Mathematical Analysis</i> , 1997, 28, 1191-1204.	1.9	34
79	Layer Stripping for a Transversely Isotropic Elastic Medium. <i>SIAM Journal on Applied Mathematics</i> , 1999, 59, 1879-1891.	1.8	34
80	On Deformation Boundary Rigidity and Spectral Rigidity of Riemannian Surfaces with No Focal Points. <i>Journal of Differential Geometry</i> , 2000, 56, 93.	1.1	34
81	A Multi-Scale Approach to Hyperbolic Evolution Equations with Limited Smoothness. <i>Communications in Partial Differential Equations</i> , 2008, 33, 988-1017.	2.2	34
82	Increasing stability in an inverse problem for the acoustic equation. <i>Inverse Problems</i> , 2013, 29, 025012.	2.0	33
83	Invariant distributions, Beurling transforms and tensor tomography in higher dimensions. <i>Mathematische Annalen</i> , 2015, 363, 305-362.	1.4	33
84	Local uniqueness for the Dirichlet-to-Neumann map via the two-plane transform. <i>Duke Mathematical Journal</i> , 2001, 108, .	1.5	32
85	The geodesic X-ray transform with fold caustics. <i>Analysis and PDE</i> , 2012, 5, 219-260.	1.4	30
86	Instability of the linearized problem in multiwave tomography of recovery both the source and the speed. <i>Inverse Problems and Imaging</i> , 2013, 7, 1367-1377.	1.1	30
87	On the linearized local Calderón problem. <i>Mathematical Research Letters</i> , 2009, 16, 955-970.	0.5	30
88	Partial data inverse problems for semilinear elliptic equations with gradient nonlinearities. <i>Mathematical Research Letters</i> , 2020, 27, 1801-1824.	0.5	30
89	Inverse problems with partial data in a slab. <i>Inverse Problems and Imaging</i> , 2010, 4, 449-462.	1.1	29
90	Inverse Problems With Partial Data for a Magnetic Schrödinger Operator in an Infinite Slab and on a Bounded Domain. <i>Communications in Mathematical Physics</i> , 2012, 312, 87-126.	2.2	28

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91	Propagation of polarization in elastodynamics with residual stress and travel times. <i>Mathematische Annalen</i> , 2003, 326, 563-587.	1.4	26
92	Linearizing non-linear inverse problems and an application to inverse backscattering. <i>Journal of Functional Analysis</i> , 2009, 256, 2842-2866.	1.4	26
93	Inverting the local geodesic X-ray transform on tensors. <i>Journal D'Analyse Mathématique</i> , 2018, 136, 151-208.	0.8	26
94	Electromagnetic Wormholes via Handlebody Constructions. <i>Communications in Mathematical Physics</i> , 2008, 281, 369-385.	2.2	25
95	Determination of second-order elliptic operators in two dimensions from partial Cauchy data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 467-472.	7.1	25
96	Nonlinear interaction of waves in elastodynamics and an inverse problem. <i>Mathematische Annalen</i> , 2020, 376, 765-795.	1.4	25
97	The Geodesic Ray Transform on Riemannian Surfaces with Conjugate Points. <i>Communications in Mathematical Physics</i> , 2015, 337, 1491-1513.	2.2	24
98	Regularity of ghosts in tensor tomography. <i>Journal of Geometric Analysis</i> , 2005, 15, 499-542.	1.0	23
99	Reconstructions for some coupled-physics inverse problems. <i>Applied Mathematics Letters</i> , 2012, 25, 1030-1033.	2.7	23
100	Full and Partial Cloaking in Electromagnetic Scattering. <i>Archive for Rational Mechanics and Analysis</i> , 2017, 223, 265-299.	2.4	23
101	Uniqueness for a wave propagation inverse problem in a half-space. <i>Inverse Problems</i> , 1998, 14, 679-684.	2.0	21
102	Rigidity of broken geodesic flow and inverse problems. <i>American Journal of Mathematics</i> , 2010, 132, 529-562.	1.1	21
103	Spectral rigidity and invariant distributions on Anosov surfaces. <i>Journal of Differential Geometry</i> , 2014, 98, .	1.1	21
104	A depth-dependent stability estimate in electrical impedance tomography. <i>Inverse Problems</i> , 2009, 25, 075001.	2.0	20
105	The X-Ray Transform for Connections in Negative Curvature. <i>Communications in Mathematical Physics</i> , 2016, 343, 83-127.	2.2	20
106	On an inverse boundary problem arising in brain imaging. <i>Journal of Differential Equations</i> , 2019, 267, 2471-2502.	2.2	20
107	Oscillating "decaying solutions, Runge approximation property for the anisotropic elasticity system and their applications to inverse problems. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2005, 84, 21-54.	1.6	19
108	Complex Spherical Waves for the Elasticity System and Probing of Inclusions. <i>SIAM Journal on Mathematical Analysis</i> , 2007, 38, 1967-1980.	1.9	19

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109	Inverse scattering for the magnetic Schrödinger operator. <i>Journal of Functional Analysis</i> , 2010, 259, 1771-1798.	1.4	19
110	Reconstruction of Penetrable Obstacles in Acoustic Scattering. <i>SIAM Journal on Mathematical Analysis</i> , 2011, 43, 189-211.	1.9	19
111	Inverse boundary value problem by measuring Dirichlet data and Neumann data on disjoint sets. <i>Inverse Problems</i> , 2011, 27, 085007.	2.0	19
112	The Calderón inverse problem for isotropic quasilinear conductivities. <i>Advances in Mathematics</i> , 2021, 391, 107956.	1.1	19
113	The x-ray transform for a non-Abelian connection in two dimensions. <i>Inverse Problems</i> , 2001, 17, 695-701.	2.0	18
114	Hyperbolic geometry and local Dirichlet-Neumann map. <i>Advances in Mathematics</i> , 2004, 188, 294-314.	1.1	18
115	Partial Cauchy Data for General Second Order Elliptic Operators in Two Dimensions. <i>Publications of the Research Institute for Mathematical Sciences</i> , 2012, 48, 971-1055.	0.8	18
116	Reconstruction of Lorentzian Manifolds from Boundary Light Observation Sets. <i>International Mathematics Research Notices</i> , 2019, 2019, 6949-6987.	1.0	18
117	Reconstruction of obstacles immersed in an incompressible fluid. <i>Inverse Problems and Imaging</i> , 2007, 1, 63-76.	1.1	18
118	Recent progress on the boundary rigidity problem. <i>Electronic Research Announcements in Mathematical Sciences</i> , 2005, 11, 64-70.	0.7	17
119	Approximate Quantum and Acoustic Cloaking. <i>Journal of Spectral Theory</i> , 2011, 1, 27-80.	0.8	17
120	Cloaking a sensor for three-dimensional Maxwell's equations: transformation optics approach. <i>Optics Express</i> , 2011, 19, 20518.	3.4	17
121	Regularized Transformation-Optics Cloaking for the Helmholtz Equation: From Partial Cloak to Full Cloak. <i>Communications in Mathematical Physics</i> , 2015, 335, 671-712.	2.2	17
122	The geodesic X-ray transform with matrix weights. <i>American Journal of Mathematics</i> , 2019, 141, 1707-1750.	1.1	17
123	The Calderón problem for quasilinear elliptic equations. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2020, 37, 1143-1166.	1.4	17
124	The Calderón Problem with Partial Data for Conductivities with $3/2$ Derivatives. <i>Communications in Mathematical Physics</i> , 2016, 348, 185-219.	2.2	16
125	An Inverse Boundary Value Problem for a Semilinear Wave Equation on Lorentzian Manifolds. <i>International Mathematics Research Notices</i> , 2022, 2022, 13181-13211.	1.0	16
126	On an inverse boundary value problem for a nonlinear elastic wave equation. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2021, 153, 114-136.	1.6	16

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127	Inverse scattering for singular potentials in two dimensions. Transactions of the American Mathematical Society, 1993, 338, 363-374.	0.9	15
128	A time-dependent approach to the inverse backscattering problem. Inverse Problems, 2001, 17, 703-716.	2.0	15
129	Reconstruction of inclusions in an elastic body. Journal Des Mathematiques Pures Et Appliquees, 2009, 91, 569-582.	1.6	15
130	On uniqueness of Lamé coefficients from partial Cauchy data in three dimensions. Inverse Problems, 2012, 28, 125002.	2.0	15
131	Uniqueness for the inverse backscattering problem for angularly controlled potentials. Inverse Problems, 2014, 30, 065005.	2.0	15
132	Reconstruction of a Fully Anisotropic Elasticity Tensor from Knowledge of Displacement Fields. SIAM Journal on Applied Mathematics, 2015, 75, 2214-2231.	1.8	15
133	On regularized full- and partial-cloaks in acoustic scattering. Communications in Partial Differential Equations, 2017, 42, 821-851.	2.2	15
134	Travel Time Tomography. Acta Mathematica Sinica, English Series, 2019, 35, 1085-1114.	0.6	15
135	Inverse Problems for the Stationary Transport Equation in the Diffusion Scaling. SIAM Journal on Applied Mathematics, 2019, 79, 2340-2358.	1.8	15
136	Reconstructions from boundary measurements on admissible manifolds. Inverse Problems and Imaging, 2011, 5, 859-877.	1.1	15
137	A new phase space method for recovering index of refraction from travel times. Inverse Problems, 2007, 23, 309-329.	2.0	14
138	On the Range of the Attenuated Ray Transform for Unitary Connections. International Mathematics Research Notices, 2015, 2015, 873-897.	1.0	14
139	Determination of Space-Time Structures from Gravitational Perturbations. Communications on Pure and Applied Mathematics, 2020, 73, 1315-1367.	3.1	14
140	Reconstructing the metric and magnetic field from the scattering relation. Inverse Problems and Imaging, 2010, 4, 397-409.	1.1	14
141	Composition of some singular Fourier integral operators and estimates for restricted X-ray transforms, II. Duke Mathematical Journal, 1991, 64, 415.	1.5	13
142	Inverse Problems for the Pauli Hamiltonian in Two Dimensions. Journal of Fourier Analysis and Applications, 2004, 10, 201-215.	1.0	13
143	POLARIZATION-INVARIANT DIRECTIONAL CLOAKING BY TRANSFORMATION OPTICS. Progress in Electromagnetics Research, 2011, 118, 415-423.	4.4	13
144	Inverse Boundary Problems for Systems in Two Dimensions. Annales Henri Poincare, 2013, 14, 1551-1571.	1.7	13

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145	Inverse Boundary Value Problem for the Stokes and the Navier–Stokes Equations in the Plane. <i>Archive for Rational Mechanics and Analysis</i> , 2015, 215, 811-829.	2.4	13
146	Inverse Problems for Magnetic Schrödinger Operators in Transversally Anisotropic Geometries. <i>Communications in Mathematical Physics</i> , 2018, 361, 525-582.	2.2	13
147	Boundary and lens rigidity, tensor tomography and analytic microlocal analysis. , 2008, , 275-293.		13
148	An adaptive phase space method with application to reflection traveltime tomography. <i>Inverse Problems</i> , 2011, 27, 115002.	2.0	12
149	Reconstruction of the Collision Kernel in the Nonlinear Boltzmann Equation. <i>SIAM Journal on Mathematical Analysis</i> , 2021, 53, 1049-1069.	1.9	12
150	Partial data inverse problems for quasilinear conductivity equations. <i>Mathematische Annalen</i> , 2023, 385, 1611-1638.	1.4	12
151	The Neumann-to-Dirichlet map in two dimensions. <i>Advances in Mathematics</i> , 2015, 281, 578-593.	1.1	11
152	On the microlocal analysis of the geodesic X-ray transform with conjugate points. <i>Journal of Differential Geometry</i> , 2018, 108, .	1.1	11
153	Local recovery of the compressional and shear speeds from the hyperbolic DN map. <i>Inverse Problems</i> , 2018, 34, 014003.	2.0	11
154	Inversion formulas and range characterizations for the attenuated geodesic ray transform. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2018, 111, 161-190.	1.6	11
155	Nonlinear responses from the interaction of two progressing waves at an interface. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2019, 36, 347-363.	1.4	11
156	Scattering Control for the Wave Equation with Unknown Wave Speed. <i>Archive for Rational Mechanics and Analysis</i> , 2019, 231, 409-464.	2.4	11
157	Low-energy inverse problems in three-body scattering. <i>Inverse Problems</i> , 2002, 18, 719-736.	2.0	10
158	Multiscale Discrete Approximations of Fourier Integral Operators Associated with Canonical Transformations and Caustics. <i>Multiscale Modeling and Simulation</i> , 2013, 11, 566-585.	1.6	10
159	Inverse problems for nonlinear hyperbolic equations. <i>Discrete and Continuous Dynamical Systems</i> , 2021, 41, 455-469.	0.9	10
160	A Layer Stripping Algorithm in Elastic Impedance Tomography. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1997, , 375-384.	0.5	10
161	Photoacoustic and thermoacoustic tomography with an uncertain wave speed. <i>Mathematical Research Letters</i> , 2014, 21, 1199-1214.	0.5	10
162	30 Years of Calderón's Problem. <i>Séminaire Laurent Schwartz "EDP Et Applications</i> , 0, , 1-25.	0.0	10

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163	The higher order fractional Calderón problem for linear local operators: Uniqueness. <i>Advances in Mathematics</i> , 2022, 399, 108246.	1.1	10
164	Boundary determination of a Riemannian metric by the localized boundary distance function. <i>Advances in Applied Mathematics</i> , 2003, 31, 379-387.	0.7	9
165	Inverse problems for advection diffusion equations in admissible geometries. <i>Communications in Partial Differential Equations</i> , 2018, 43, 585-615.	2.2	9
166	Decoupling of Modes for the Elastic Wave Equation in Media of Limited Smoothness. <i>Communications in Partial Differential Equations</i> , 2011, 36, 1683-1693.	2.2	8
167	Local analytic regularity in the linearized Calderón problem. <i>Analysis and PDE</i> , 2016, 9, 515-544.	1.4	8
168	On the Inverse Problem of Finding Cosmic Strings and Other Topological Defects. <i>Communications in Mathematical Physics</i> , 2018, 357, 569-595.	2.2	8
169	Stability estimates for partial data inverse problems for Schrödinger operators in the high frequency limit. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2019, 126, 273-291.	1.6	8
170	The transmission problem in linear isotropic elasticity. <i>Pure and Applied Analysis</i> , 2021, 3, 109-161.	1.1	8
171	The Cauchy Data and the Scattering Relation. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2004, , 263-287.	0.5	8
172	Visibility and invisibility. , 0, , 381-408.		8
173	X-Ray Transform and Boundary Rigidity for Asymptotically Hyperbolic Manifolds. <i>Annales De L'Institut Fourier</i> , 2019, 69, 2857-2919.	0.6	8
174	Nonlinear Ultrasound Imaging Modeled by a Westervelt Equation. <i>SIAM Journal on Applied Mathematics</i> , 2022, 82, 408-426.	1.8	8
175	Characterization and 'Source-Receiver' Continuation of Seismic Reflection Data. <i>Communications in Mathematical Physics</i> , 2006, 263, 1-19.	2.2	7
176	Propagation and recovery of singularities in the inverse conductivity problem. <i>Analysis and PDE</i> , 2018, 11, 1901-1943.	1.4	7
177	The Light Ray Transform on Lorentzian Manifolds. <i>Communications in Mathematical Physics</i> , 2020, 377, 1349-1379.	2.2	7
178	Inverse scattering problem in nuclear physics – Optical model. <i>Journal of Mathematical Physics</i> , 2004, 45, 2613-2632.	1.1	6
179	Inverse Problems for Differential Forms on Riemannian Manifolds with Boundary. <i>Communications in Partial Differential Equations</i> , 2011, 36, 1475-1509.	2.2	6
180	Reconstruction of piecewise smooth wave speeds using multiple scattering. <i>Transactions of the American Mathematical Society</i> , 2019, 372, 1213-1235.	0.9	6

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181	Inverse Scattering in Anisotropic Media. , 2000, , 235-251.		6
182	Scattering by a Metric1. , 2002, , 1668-1677.		6
183	Inverse boundary value problems for wave equations with quadratic nonlinearities. Journal of Differential Equations, 2022, 309, 558-607.	2.2	6
184	On Lp Resolvent Estimates for Elliptic Operators on Compact Manifolds. Communications in Partial Differential Equations, 2015, 40, 438-474.	2.2	5
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