

Rocco Pierri

List of Publications by Year in descending order

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76
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76
docs citations

76
times ranked

309
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial Sampling in Monostatic Radar Imaging. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	12
2	Optimal Field Sampling of Arc Sources via Asymptotic Study of the Radiation Operator. Electronics (Switzerland), 2022, 11, 270.	1.8	1
3	Sensor Arrangement in Through-the Wall Radar Imaging. IEEE Open Journal of Antennas and Propagation, 2022, 3, 333-341.	2.5	9
4	A PSF Approach to Far Field Discretization for Conformal Sources. IEEE Access, 2022, 10, 23394-23407.	2.6	3
5	Dimension and Sampling of the Near-Field and Its Intensity Over Curves. IEEE Open Journal of Antennas and Propagation, 2022, 3, 412-424.	2.5	3
6	Performance of the Linear Model Scattering of 2D Full Object with Limited Data. Sensors, 2022, 22, 3868.	2.1	7
7	Sensor Arrangement in Monostatic Subsurface Radar Imaging. IEEE Open Journal of Antennas and Propagation, 2021, 2, 3-13.	2.5	10
8	Synthesis of Angle Arrays by the NDF of the Radiation Integral. IEEE Transactions on Antennas and Propagation, 2021, 69, 2092-2102.	3.1	10
9	Inverse Source on Conformal Conic Geometries. IEEE Transactions on Antennas and Propagation, 2021, 69, 1596-1609.	3.1	18
10	NDF of Scattered Fields for Strip Geometries. Electronics (Switzerland), 2021, 10, 202.	1.8	11
11	Microwave imaging via a migration algorithm and effective spatial sampling. , 2021, , .		0
12	An SVD Approach for Estimating the Dimension of Phaseless Data on Multiple Arcs in Fresnel Zone. Electronics (Switzerland), 2021, 10, 606.	1.8	3
13	PSF Analysis of the Inverse Source and Scattering Problems for Strip Geometries. Electronics (Switzerland), 2021, 10, 754.	1.8	9
14	On the Sampling of the Fresnel Field Intensity over a Full Angular Sector. Electronics (Switzerland), 2021, 10, 832.	1.8	5
15	Experimental Validation of a Microwave Imaging Method for Shallow Buried Target Detection by Under-Sampled Data and a Non-Cooperative Source. Sensors, 2021, 21, 5148.	2.1	2
16	Scattered Far-Field Sampling in Multi-Static Multi-Frequency Configuration. Sensors, 2021, 21, 4724.	2.1	7
17	The Dimension of Phaseless Near-Field Data by Asymptotic Investigation of the Lifting Operator. Electronics (Switzerland), 2021, 10, 1658.	1.8	5
18	Radiation of a Circular Arc Source in a Limited Angle for Nonuniform Conformal Arrays. IEEE Transactions on Antennas and Propagation, 2021, 69, 4955-4966.	3.1	12

#	ARTICLE	IF	CITATIONS
19	Near-Field <i>Transverse</i> Resolution in Planar Source Reconstructions. IEEE Transactions on Antennas and Propagation, 2021, 69, 4836-4845.	3.1	16
20	NDF and PSF Analysis in Inverse Source and Scattering Problems for Circumference Geometries. Electronics (Switzerland), 2021, 10, 2157.	1.8	10
21	NDF of the Near-Zone Field on a Line Perpendicular to the Source. IEEE Access, 2021, 9, 91649-91660.	2.6	6
22	Sampling approach for the discretization of scattering operator in inhomogeneous medium. , 2021, , .		0
23	An efficient sampling scheme in phaseless near-field techniques. , 2021, , .		0
24	Non-uniform near field sampling for conformal 3D sources. , 2021, , .		0
25	Resolution of Born Scattering in Curve Geometries: Aspect-Limited Observations and Excitations. Electronics (Switzerland), 2021, 10, 3089.	1.8	6
26	Near-Field Warping Sampling Scheme for Broad-Side Antenna Characterization. Electronics (Switzerland), 2020, 9, 1047.	1.8	15
27	Element positioning effect on the performance of conformal arrays: synthesis and diagnostics. , 2020, , .		1
28	On Data Increasing in Phase Retrieval via Quadratic Inversion: Flattening Manifold and Local Minima. IEEE Transactions on Antennas and Propagation, 2020, 68, 8104-8113.	3.1	15
29	Asymptotic Study of the Radiation Operator for the Strip Current in Near Zone. Electronics (Switzerland), 2020, 9, 911.	1.8	8
30	TRANSVERSE RESOLUTION IN MICROWAVE IMAGING FOR STRIP OBJECTS BURIED IN A HALF-SPACE MEDIUM. Progress in Electromagnetics Research M, 2020, 88, 145-157.	0.5	13
31	Performance of Phase Retrieval via Phaselift and Quadratic Inversion in Circular Scanning Case. IEEE Transactions on Antennas and Propagation, 2019, 67, 7528-7537.	3.1	25
32	Radiation Properties of Conformal Antennas: The Elliptical Source. Electronics (Switzerland), 2019, 8, 531.	1.8	11
33	Half-space impact in multi-monostatic linear inverse scattering: numerical results. , 2019, , .		0
34	Comparison of Some Geometries in the Inverse Source Problem. , 2019, , .		2
35	Numeric Simulations on the Choice of Curve Parameters for ED and SVD Analysis of Radiating Sources. , 2019, , .		0
36	Fourier Analysis for the Reconstruction of Radiating Sources on Conic Curves. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
37	NDF and PSF Numeric Results of Elliptical Sources. , 2019, , .		1
38	Valid angle criterion and radiation pattern estimation via singular value decomposition for planar scanning. IET Microwaves, Antennas and Propagation, 2019, 13, 2342-2348.	0.7	12
39	Sampling approach for singular system computation of a radiation operator. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 353.	0.8	39
40	Resolution limits in inverse source problem for strip currents not in Fresnel zone. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 826.	0.8	27
41	Depth resolution in strip current reconstructions in near non-reactive zone. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 975.	0.8	20
42	Application of Inverse Source Reconstruction to Conformal Antennas Synthesis. IEEE Transactions on Antennas and Propagation, 2018, 66, 1436-1445.	3.1	37
43	On the Number of Independent Equations in Phase Retrieval Problem: Numerical Results in Circular Case. , 2018, , .		4
44	Optimal choice of measurement points in near field: numerical results. , 2018, , .		2
45	INFORMATION CONTENT IN INVERSE SOURCE WITH SYMMETRY AND SUPPORT PRIORS. Progress in Electromagnetics Research C, 2018, 80, 39-54.	0.6	22
46	INVERSE SOURCE OF CIRCUMFERENCE GEOMETRIES: SVD INVESTIGATION BASED ON FOURIER ANALYSIS. Progress in Electromagnetics Research M, 2018, 76, 217-230.	0.5	24
47	Inverse source in the near field: the case of a strip current. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 755.	0.8	23
48	On the singular spectrum of the radiation operator in near reactive zone. , 2017, , .		1
49	Inverse scattering in the presence of a reflecting plane. Journal of Optics (United Kingdom), 2016, 18, 025603.	1.0	19
50	Enhancing TSVD-distributonal method by passive PEC grid. , 2014, , .		0
51	Inverse source in the presence of a reflecting plane for the strip case. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2814.	0.8	20
52	Role of diversity on the singular values of linear scattering operators: the case of strip objects. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 2266.	0.8	30
53	RF breast cancer detection employing a noncharacterized vivaldi antenna and a MUSIC-inspired algorithm. International Journal of RF and Microwave Computer-Aided Engineering, 2013, 23, 598-609.	0.8	29
54	Inverse Scattering and Microwave Tomography in Safety, Security, and Health. International Journal of Antennas and Propagation, 2013, 2013, 1-2.	0.7	0

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55	On the Singular Spectrum of the Radiation Operator for Multiple and Extended Observation Domains. International Journal of Antennas and Propagation, 2013, 2013, 1-10.	0.7	23
56	TWI EXPERIMENTAL RESULTS BY A LINEAR INVERSE SCATTERING APPROACH. Progress in Electromagnetics Research, 2009, 91, 259-272.	1.6	19
57	A novel phase retrieval technique based on propagation diversity via a dielectric slab. Optics Express, 2008, 16, 7418.	1.7	4
58	A Kirchhoff-Based Shape Reconstruction Algorithm for the Multimonostatic Configuration: The Realistic Case of Buried Pipes. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3031-3038.	2.7	86
59	Localizing Thin Metallic Cylinders by a 2.5-D Linear Distributional Approach: Experimental Results. IEEE Transactions on Antennas and Propagation, 2008, 56, 2630-2637.	3.1	18
60	Localization of Interfaces Embedded in a Half-Space by a Linear Inverse Scattering Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3661-3671.	2.7	9
61	Number of degrees of freedom of the radiated field over multiple bounded domains. Optics Letters, 2007, 32, 3113.	1.7	23
62	Localization of a planar perfect-electric-conducting interface embedded in a half-space. Journal of Optics, 2006, 8, 10-16.	1.5	12
63	Linear tomographic inversion of stepped-frequency GPR data: experimental results on two test-sites. AEU - International Journal of Electronics and Communications, 2005, 59, 329-336.	1.7	7
64	Resolution in two-dimensional tomographic reconstructions in the Fresnel zone from Born scattered fields. Journal of Optics, 2004, 6, 529-536.	1.5	14
65	Multistatic "multiview" resolution from Born fields for strips in Fresnel zone. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 1402.	0.8	9
66	In-depth resolution from multifrequency Born fields scattered by a dielectric strip in the Fresnel zone. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 1234.	0.8	16
67	In-depth resolution for a strip source in the Fresnel zone. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 352.	0.8	49
68	Inverse scattering under the distorted Born approximation for cylindrical geometries. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 1779.	0.8	35
69	Role of support information and zero locations in phase retrieval by a quadratic approach. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 1845.	0.8	36
70	Inverse scattering under the distorted Born approximation for cylindrical geometries: errata. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 2310.	0.8	0
71	Imaging of a rotationally symmetric dielectric cylinder by a quadratic approach: errata. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 549.	0.8	0
72	Information content of Born scattered fields: results in the circular cylindrical case. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 1909.	0.8	72

#	ARTICLE	IF	CITATIONS
73	On the information content of the radiated fields in the near zone over bounded domains. Inverse Problems, 1998, 14, 321-337.	1.0	79
74	On the local minima in phase reconstruction algorithms. Radio Science, 1996, 31, 1887-1899.	0.8	55
75	Reconstruction of complex signals from intensities of Fourier-transform pairs. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 1546.	0.8	13