

Jean Michel Geffrin

List of Publications by Year in descending order

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69
papers

1,315
citations

393982

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360668

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69
all docs

69
docs citations

69
times ranked

948
citing authors

#	ARTICLE	IF	CITATIONS
1	Approach to Control Permittivity and Shape of Centimeter-Sized Additive Manufactured Objects: Application to Microwave Scattering Experiments. IEEE Transactions on Antennas and Propagation, 2021, 69, 983-991.	3.1	4
2	Complex-structured 3D-printed wireframes as asteroid analogues for tomographic microwave radar measurements. Materials and Design, 2021, 198, 109364.	3.3	3
3	Number of independent measurements required to obtain reliable mean scattering properties of irregular particles having a small size parameter, using microwave analogy measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107718.	1.1	8
4	High-Q Transparency Band in All-Dielectric Metasurfaces Induced by a Quasi Bound State in the Continuum. Laser and Photonics Reviews, 2021, 15, 2000263.	4.4	72
5	Full-Wave Indoor Measurementsâ€™ Cross-Validation With the Model Demos for Foliage Penetrating Applications. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 933-937.	1.4	3
6	Counting and Phase Function Measurements with the LONSCAPE Instrument to Determine Physical Properties of Aerosols in Ice Giant Planet Atmospheres. Space Science Reviews, 2020, 216, 1.	3.7	6
7	Full wavefield simulation versus measurement of microwave scattering by a complex 3D-printed asteroid analogue. Astronomy and Astrophysics, 2020, 643, A68.	2.1	5
8	Brewster quasi bound states in the continuum in all-dielectric metasurfaces from single magnetic-dipole resonance meta-atoms. Scientific Reports, 2019, 9, 16048.	1.6	22
9	Experimental demonstration of spectrally broadband Huygens sources using low-index spheres. APL Photonics, 2019, 4, 020802.	3.0	17
10	Influence of the description of the scattering matrix on permittivity reconstruction with a quantitative imaging procedure: polarization effects. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 234.	0.8	6
11	Imaging the interior of a comet from bistatic microwave measurements: Case of a scale comet model. Advances in Space Research, 2018, 62, 1977-1986.	1.2	9
12	Embedding Approach to Modeling Electromagnetic Fields in a Complex Two-Dimensional Environment. International Journal of Antennas and Propagation, 2018, 2018, 1-15.	0.7	4
13	On the scattering directionality of a dielectric particle dimer of High Refractive Index. Scientific Reports, 2018, 8, 7976.	1.6	19
14	Scattering directionality of high refractive index dielectric particles: a note for solar energy harvesting. , 2018, , .		2
15	Electromagnetic polarization-controlled perfect switching effect with high-refractive-index dimers and the beam-splitter configuration. Nature Communications, 2017, 8, 13910.	5.8	32
16	Interlaboratory comparisons of radar cross section measurements by the "criteria suggestions. , 2017, , .		0
17	On the interest of a bistatic radar cross section setup to measure various scattering quantities. , 2017, , .		0
18	Microwave analog experiments on optically soft spheroidal scatterers with weak electromagnetic signature. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 196, 1-9.	1.1	7

#	ARTICLE	IF	CITATIONS
19	Bistatic scattering measurement on low permittivity spheroidal objects. , 2017, , .		3
20	Quantitative imaging using scattering matrix: Influence of the polarization. , 2017, , .		0
21	Upgrading The Settings of a Microwave Experimental Setup for Better Accuracy in Bistatic Radar Cross Section Measurement. , 2017, , .		1
22	Directional Fano resonances in light scattering by a high refractive index dielectric sphere. Physical Review B, 2016, 94, .	1.1	16
23	The Surface Wave Scattering-Microwave Scanner (SWS-MS). Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 168, 1-9.	1.1	0
24	Small Dielectric Spheres with High Refractive Index as New Multifunctional Elements for Optical Devices. Scientific Reports, 2015, 5, 12288.	1.6	73
25	3-D Imaging of a Microwave Absorber Sample From Microwave Scattered Field Measurements. IEEE Microwave and Wireless Components Letters, 2015, 25, 472-474.	2.0	10
26	Molding acoustic, electromagnetic and water waves with a single cloak. Scientific Reports, 2015, 5, 10678.	1.6	31
27	Complex Permittivity Determination From Far-Field Scattering Patterns. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 309-312.	2.4	24
28	National comparison of radar cross section measurements: Motivations and scheduled tasks. , 2014, , .		3
29	Influence of the uncertainties on the scattering problems. , 2014, , .		0
30	Imaging of a scaled comet model from lab experiments. , 2014, , .		1
31	Recent advances in microwave analog to light scattering experiments. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 100-105.	1.1	23
32	Evanescent wave scattering by particles on a surface: Validation of the discrete dipole approximation with surface interaction against microwave analog experiments. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 146, 452-458.	1.1	10
33	Controllable emission of a dipolar source coupled with a magneto-dielectric resonant subwavelength scatterer. Scientific Reports, 2013, 3, 3063.	1.6	60
34	Polarization effects in 3D vectorial-induced current reconstructions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1967.	0.8	11
35	Manipulating light matter interaction with Mie resonators. , 2013, , .		0
36	3D Inversion of lossy targets from free space scattering measurements. , 2012, , .		1

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37	A large 3D target with small inner details: A difficult cocktail for imaging purposes without a priori knowledge on the scatterers geometry. Radio Science, 2012, 47, .	0.8	12
38	An extended-DORT method and its application in a cavity configuration. Inverse Problems, 2012, 28, 115008.	1.0	6
39	3D-Aggregate Quantitative Imaging: Experimental Results and Polarization Effects. IEEE Transactions on Antennas and Propagation, 2011, 59, 1237-1244.	3.1	22
40	Effects of polarization on microwave imaging reconstructions. , 2011, , .		2
41	A RIGOROUS FOREST SCATTERING MODEL VALIDATION THROUGH COMPARISON WITH INDOOR BISTATIC SCATTERING MEASUREMENTS. Progress in Electromagnetics Research B, 2011, 33, 1-19.	0.7	11
42	A new implementation of a microwave analog to light scattering measurement device. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1753-1760.	1.1	29
43	Target localization and measured scattered field pre-processing using spectral bandwidth minimization for shallowly buried target problems. Microwave and Optical Technology Letters, 2010, 52, 147-151.	0.9	8
44	ON THE CALIBRATION OF A MULTISTATIC SCATTERING MATRIX MEASURED BY A FIXED CIRCULAR ARRAY OF ANTENNAS. Progress in Electromagnetics Research, 2010, 110, 1-21.	1.6	19
45	3D Quantitative imaging of a complex shape target from microwave scattering measurements. , 2010, , .		1
46	Aperture Antenna Modeling by a Finite Number of Elemental Dipoles From Spherical Field Measurements. IEEE Transactions on Antennas and Propagation, 2010, 58, 1260-1268.	3.1	25
47	Microwave measurements of the full amplitude scattering matrix of a complex aggregate: a database for the assessment of light scattering codes. Optics Express, 2010, 18, 2056.	1.7	28
48	A New Value Picking Regularization Strategy”Application to the 3-D Electromagnetic Inverse Scattering Problem. IEEE Transactions on Antennas and Propagation, 2009, 57, 1133-1149.	3.1	25
49	Microwave analog to light scattering measurements on a fully characterized complex aggregate. Applied Physics Letters, 2009, 94, 181107.	1.5	14
50	Imposing Zernike representation for imaging two-dimensional targets. Inverse Problems, 2009, 25, 035012.	1.0	16
51	Measurement strategies for a confined microwave circular scanner. Inverse Problems in Science and Engineering, 2009, 17, 787-802.	1.2	12
52	Optimization of a bistatic microwave scattering measurement setup: From high to low scattering targets. Radio Science, 2009, 44, .	0.8	37
53	Validation of a 3D bistatic microwave scattering measurement setup. Radio Science, 2008, 43, .	0.8	41
54	A single-view imaging strategy for transient scattered fields. Inverse Problems, 2008, 24, 015008.	1.0	2

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55	Electromagnetic three-dimensional reconstruction of targets from free space experimental data. Applied Physics Letters, 2008, 92, 194103.	1.5	19
56	The reconstruction of inhomogeneous targets from single view transient data. Near Surface Geophysics, 2008, 6, 381-390.	0.6	0
57	A microwave imaging circular setup for soil moisture information. , 2007, , .		4
58	Full-Wave Three-Dimensional Microwave Imaging With a Regularized Gaussâ€œNewton Methodâ€” Theory and Experiment. IEEE Transactions on Antennas and Propagation, 2007, 55, 3279-3292.	3.1	149
59	Three dimensional permittivity reconstructions from free space experimental data. , 2007, , .		0
60	Amplitude and phase of light scattered by micro-scale aggregates of dielectric spheres: Comparison between theory and microwave analogy experiments. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 103, 156-167.	1.1	20
61	Drift correction for scattering measurements. Applied Physics Letters, 2006, 89, 244104.	1.5	50
62	Three dimensional complex permittivity reconstruction by means of Newton-type microwave imaging. , 2006, , .		1
63	Validation of 3D scattering measurements. , 2006, , .		2
64	Imaging of dielectric cylinders from experimental stepped-frequency data. Applied Physics Letters, 2006, 88, 164104.	1.5	6
65	Drift correction for 3D scattering measurements. , 2006, , .		3
66	On the accuracy of scattering measurements in free space: Random and systematic errors. , 2005, , .		2
67	Free space experimental scattering database continuation: 2D multi-dielectric and hybrid targets. , 2005, , .		1
68	Free space experimental scattering database continuation: experimental set-up and measurement precision. Inverse Problems, 2005, 21, S117-S130.	1.0	257
69	Gradient and Newton-Kantorovich Methods for Microwave Tomography. , 1997, , 168-187.		5