

Neil Salmon

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,180
citations

623734

14
h-index

454955

30
g-index

81
all docs

81
docs citations

81
times ranked

880
citing authors

#	ARTICLE	IF	CITATIONS
1	Disruptions in JET. Nuclear Fusion, 1989, 29, 641-666.	3.5	399
2	Observation of Continuous Divertor Detachment in H-Mode Discharges in ASDEX Upgrade. Physical Review Letters, 1995, 74, 4217-4220.	7.8	152
3	<title>Compact real-time (video rate) passive millimeter-wave imager</title>. , 1999, , .		37
4	Mechanically scanned real-time passive millimeter-wave imaging at 94 GHz. , 2003, 5077, 1.		37
5	Millimeter-Wave and Terahertz Imaging in Security Applications. Springer Series in Optical Sciences, 2012, , 491-520.	0.7	37
6	Outdoor Passive Millimeter-Wave Imaging: Phenomenology and Scene Simulation. IEEE Transactions on Antennas and Propagation, 2018, 66, 897-908.	5.1	34
7	Recent results from divertor operation in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1994, 36, B79-B92.	2.1	33
8	First video rate imagery from a 32-channel 22-GHz aperture synthesis passive millimetre wave imager. Proceedings of SPIE, 2011, , .	0.8	28
9	Edge physics and H-mode studies in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 1993, 35, B205-B214.	2.1	27
10	3-D Radiometric Aperture Synthesis Imaging. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3579-3587.	4.6	27
11	Dynamic behaviour of the H-mode in ASDEX upgrade. Plasma Physics and Controlled Fusion, 1994, 36, A129-A134.	2.1	24
12	ELECTROMAGNETIC SIGNATURES OF HUMAN SKIN IN THE MILLIMETER WAVE BAND 80-100 GHZ. Progress in Electromagnetics Research B, 2018, 80, 79-99.	1.0	22
13	Indoor Full-Body Security Screening: Radiometric Microwave Imaging Phenomenology and Polarimetric Scene Simulation. IEEE Access, 2020, 8, 144621-144637.	4.2	22
14	The Reflectance of Human Skin in the Millimeter-Wave Band. Sensors, 2020, 20, 1480.	3.8	20
15	Millimeter-wave emissivity as a metric for the non-contact diagnosis of human skin conditions. Bioelectromagnetics, 2017, 38, 559-569.	1.6	19
16	Polarimetric scene simulation in millimeter-wave radiometric imaging. , 2004, , .		18
17	Assessment of Bandaged Burn Wounds Using Porcine Skin and Millimetric Radiometry. Sensors, 2019, 19, 2950.	3.8	16
18	First electron temperature edge measurements on the asdex upgrade tokamak using a heterodyne radiometer. Journal of Infrared, Millimeter and Terahertz Waves, 1994, 15, 53-60.	0.6	14

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19	Plasma heating in JET. Plasma Physics and Controlled Fusion, 1986, 28, 1211-1223.	2.1	13
20	Electron absorption of fast magnetosonic waves by transit time magnetic pumping in JET. Nuclear Fusion, 1990, 30, 2170-2176.	3.5	13
21	Interferometric aperture synthesis for next generation passive millimetre wave imagers. Proceedings of SPIE, 2012, , .	0.8	13
22	Minimising the costs of next generation aperture synthesis passive millimetre wave imagers. Proceedings of SPIE, 2011, , .	0.8	12
23	Scene simulation for passive and active millimetre- and submillimetre-wave imaging for security scanning and medical applications. , 2004, , .		10
24	<title>Polarimetric millimeter-wave imaging</title>. , 2001, , .		9
25	Polarimetric passive millimetre-wave imaging scene simulation including multiple reflections of subjects and their backgrounds. , 2005, 5989, 354.		9
26	Digital beam-forming for passive millimetre wave security imaging. , 2007, , .		9
27	Scattering in polarimetric millimetre-wave imaging scene simulation. , 2006, , .		8
28	<title>Scene simulation of passive millimeter wave images of plastic and metal objects</title>. , 2001, , .		6
29	First imagery generated by near-field real-time aperture synthesis passive millimetre wave imagers at 94 GHz and 183 GHz. Proceedings of SPIE, 2010, , .	0.8	6
30	<title>Operational issues for passive millimeter-wave imaging systems</title>. , 1997, 3064, 23.		5
31	Scene simulation of passive millimeter-wave images of plastic and metal objects. , 2002, , .		5
32	An all electronic passive millimetre wave imaging system. , 2005, 5789, 11.		5
33	Compact and light-weight digital beam-forming passive millimetre-wave imagers. , 2008, , .		5
34	Near-field aperture synthesis millimeter wave imaging for security screening of personnel. , 2014, , .		5
35	Simulations of three-dimensional radiometric imaging of extended sources in a security screening portal. Proceedings of SPIE, 2015, , .	0.8	5
36	Millimetre wave radiometers for medical diagnostics of human skin. , 2017, , .		5

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37	Signatures of human skin in the millimetre wave band (80-100) GHz. , 2017, , .		5
38	Spatial resolutions and field-of-views in millimetre wave aperture synthesis security screening imagers. , 2018, , .		5
39	<title>W-band real-time passive millimeter-wave imager for helicopter collision avoidance</title>. , 1999, , .		4
40	Polarimetric passive millimetre wave imaging. , 0, , .		4
41	Near-field and three-dimensional aperture synthesis imaging. Proceedings of SPIE, 2013, , .	0.8	4
42	Full polarimetric millimetre wave radar for stand-off security screening. , 2017, , .		4
43	Measurement of electron temperature and density of the edge plasma of JET by ECE and microwave reflectometry. Journal of Nuclear Materials, 1990, 176-177, 1064-1069.	2.7	3
44	<title>Carbon monoxide detection using passive and active millimeter-wave radiometry</title>. , 2000, 4032, 119.		3
45	Millimetre wave sky radiation temperature fluctuations. , 0, , .		3
46	Carbon monoxide detection using passive and active millimetre wave radiometry. , 0, , .		3
47	Electronic scanning for passive millimeter-wave imaging. , 2003, , .		3
48	Passive millimetre wave digital beam-forming security imaging. Proceedings of SPIE, 2007, , .	0.8	3
49	An aviation security (AVSEC) screening demonstrator for the detection of non-metallic threats at 28-33 GHz. Proceedings of SPIE, 2013, , .	0.8	3
50	Prospects of imaging applications. , 1997, , .		2
51	<title>Absolute temperature stability of passive imaging radiometers</title>. , 1997, , .		2
52	<title>Real-time passive millimeter-wave imaging</title>. , 1998, , .		2
53	<title>Sky radiation temperature changes and fluctuations in the millimeter-wave band</title>. , 2000, , .		2
54	Amplitude and intensity interferometry using satellite LNB receivers for innovative and low cost microwave and millimetre wave sensor development. Proceedings of SPIE, 2012, , .	0.8	2

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55	A millimeter-wave Bell Test using a ferrite parametric amplifier and a homodyne interferometer. Journal of Magnetism and Magnetic Materials, 2020, 501, 166435.	2.3	2
56	Indoor passive sensing for detecting hidden objects under clothing. , 2021, , .		2
57	Extended sources near-field processing of experimental aperture synthesis data and application of the Gerchberg method for enhancing radiometric three-dimensional millimetre-wave images in security screening portals. , 2017, , .		2
58	First results of ion cyclotron resonance heating on ASDEX upgrade. AIP Conference Proceedings, 1994, , .	0.4	1
59	Characterisation and calibration of a large aperture (1.6 m) ka-band indoor passive millimetre wave security screening imager. , 2012, , .		1
60	A feasibility study into the screening and imaging of hand luggage for threat items at 35 GHz using an active large aperture (1.6 m) security screening imager. Proceedings of SPIE, 2013, , .	0.8	1
61	Three-dimensional radiometric aperture synthesis microscopy for security screening. , 2014, , .		1
62	Active millimeter-wave radar for sensing and imaging through dressing materials. , 2017, , .		1
63	Passive millimeter wave imagers for safety and security. SPIE Newsroom, 2008, , .	0.1	1
64	Experimental determination and simulations of the Huynen target parameters for full polarimetric millimetre wave concealed weapon recognition. , 2018, , .		1
65	Variation in the electromagnetic signatures of the human skin with physical activity and hydration level of the skin. , 2019, , .		1
66	<title>Landmine detection using passive centimeter- and millimeter-wave emission</title>. , 1998, 3378, 95.		0
67	Passive millimetre wave imaging and absorption from exhaust gases. , 0, , .		0
68	<title>Coherent effects in passive centimeter- and millimeter-wave imaging for landmine detection</title>. , 1999, , .		0
69	Passive millimetre wave imaging for ballistic missile launch detection. , 2008, , .		0
70	Measurements of aerospace materials and their interpretation for non-destructive testing. , 2009, , .		0
71	Calibration source and temperature standard for passive millimetre wave imagers. Proceedings of SPIE, 2010, , .	0.8	0
72	RF Imaging, Architectures, and Applications: introduction to the feature issue. Applied Optics, 2010, 49, RF11.	2.1	0

#	ARTICLE	IF	CITATIONS
73	Front Matter: Volume 8544. Proceedings of SPIE, 2012, , .	0.8	0
74	Applicability of radio astronomy techniques to the processing and interpretation of aperture synthesis passive millimetre-wave applications. , 2012, , .		0
75	Front Matter: Volume 8900. , 2013, , .		0
76	Investigation of radio astronomy image processing techniques for use in the passive millimetre-wave security screening environment. , 2014, , .		0
77	Screening vehicles for stowaways using aperture synthesis passive millimetre wave imaging. Proceedings of SPIE, 2015, , .	0.8	0
78	Experimental results and simulations from aperture synthesis three-dimensional radiometric imaging. Proceedings of SPIE, 2016, , .	0.8	0
79	A quantum Bell Test homodyne interferometer at ambient temperature for millimetre wave entangled photons. , 2018, , .		0
80	Front Matter: Volume 10800. , 2018, , .		0
81	Detection of concealed explosives and shrapnel weapons using decompositions of microwave polarimetric radar data. , 2020, , .		0