Kazuya Kobayashi

List of Publications by Year
in descending order

45 papers	362 citations	933447 10 h-index	794594 19 g-index
45 all docs	45 docs citations	45 times ranked	142 citing authors

#	Article	IF	Citations
1	Periodicity Matters: Grating or lattice resonances in the scattering by sparse arrays of subwavelength strips and wires. IEEE Antennas and Propagation Magazine, 2015, 57, 34-45.	1.4	65
2	On Generalized Gamma Functions Occurring in Diffraction Theory*. Journal of the Physical Society of Japan, 1991, 60, 1501-1512.	1.6	60
3	Electromagnetic Engineering of a Single-Mode Nanolaser on a Metal Plasmonic Strip Placed into a Circular Quantum Wire. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-9.	2.9	36
4	Plane Wave Diffraction by a Strip:Exact and Asymptotic Solutions*. Journal of the Physical Society of Japan, 1991, 60, 1891-1905.	1.6	34
5	MATHEMATICAL MODELLING OF ELECTROMAGNETIC SCATTERING FROM A THIN PENETRABLE TARGET. Progress in Electromagnetics Research, 2005, 55, 95-116.	4.4	27
6	Solutions of Wave Scattering Problems for a Class of the Modified Wiener-Hopf Geometries. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 233-241.	0.2	17
7	Diffraction of a plane electromagnetic wave by a parallel plate grating with dielectric loading: the case of transverse magnetic incidence. Canadian Journal of Physics, 1985, 63, 453-465.	1.1	14
8	Guest Editorial: Method of analytical regularisation for new frontiers of applied electromagnetics. IET Microwaves, Antennas and Propagation, 2021, 15, 1127-1132.	1.4	12
9	DIFFRACTION BY A SEMI-INFINITE PARALLEL-PLATE WAVEGUIDE WITH SINUSOIDAL WALL CORRUGATION: COMBINED PERTURBATION AND WIENER-HOPF ANALYSIS. Progress in Electromagnetics Research B, 2009, 13, 75-110.	1.0	11
10	Wiener-Hopf Analysis of the Plane Wave Diffraction by a Thin Material Strip. IEICE Transactions on Electronics, 2017, E100.C, 11-19.	0.6	11
11	Stationary iteration methods for solving 3D electromagnetic scattering problems. Applied Mathematics and Computation, 2013, 222, 107-122.	2.2	9
12	WIENER-HOPF ANALYSIS OF THE H-POLARIZED PLANE WAVE DIFFRACTION BY A FINITE SINUSOIDAL GRATING (Invited Paper). Progress in Electromagnetics Research, 2014, 149, 1-13.	4.4	9
13	PLANE WAVE DIFFRACTION BY A FINITE PARALLEL-PLATE WAVEGUIDE WITH FOUR-LAYER MATERIAL LOADING: PART I - THE CASE OF E POLARIZATION. Progress in Electromagnetics Research B, 2008, 6, 1-36.	1.0	8
14	PLANE WAVE DIFFRACTION BY A FINITE PARALLEL-PLATE WAVEGUIDE WITH FOUR-LAYER MATERIAL LOADING: PART II - THE CASE OF H POLARIZATION. Progress in Electromagnetics Research B, 2008, 6, 267-294.	1.0	7
15	COMBINED WIENER-HOPF AND PERTURBATION ANALYSIS OF THE H-POLARIZED PLANE WAVE DIFFRACTION BY A SEMI-INFINITE PARALLEL-PLATE WAVEGUIDE WITH SINUSOIDAL WALL CORRUGATION. Progress in Electromagnetics Research B, 2009, 13, 203-236.	1.0	7
16	Full wave analysis of plane wave diffraction by a finite sinusoidal grating: E-polarization case. Wave Motion, 2019, 86, 44-62.	2.0	6
17	Wiener-Hopf Analysis of the Plane Wave Diffraction by a Thin Material Strip: the Case of E Polarization. IEICE Transactions on Electronics, 2018, E101.C, 12-19.	0.6	5
18	Plane Wave Diffraction by a Thin Material Strip: Higher Order Asymptotics. , 2014, , .		5

#	Article	IF	Citations
19	On the Factorization of Certain Kernels Arising in Functional Equations of the Wiener-Hopf Type. Journal of the Physical Society of Japan, 1984, 53, 2885-2898.	1.6	3
20	DIFFRACTION BY A TERMINATED, SEMI-INFINITE PARALLEL-PLATE WAVEGUIDE WITH FOUR-LAYER MATERIAL LOADING: THE CASE OF H POLARIZATION. Progress in Electromagnetics Research B, 2009, 12, 139-162.	1.0	3
21	Combined perturbation and wiener–hopf analysis of the diffraction by a finite sinusoidal grating. Microwave and Optical Technology Letters, 1991, 4, 495-501.	1.4	2
22	Wiener-Hopf analysis of the radar cross section of a thin material strip. , 2016, , .		2
23	PLANE WAVE DIFFRACTION BY A FINITE PARALLEL-PLATE WAVEGUIDE WITH SINUSOIDAL WALL CORRUGATION. Progress in Electromagnetics Research B, 2017, 73, 61-78.	1.0	2
24	DIFFRACTION BY A TERMINATED, SEMI-INFINITE PARALLEL-PLATE WAVEGUIDE WITH FOUR-LAYER MATERIAL LOADING. Progress in Electromagnetics Research B, 2009, 12, 1-33.	1.0	2
25	WAVE DIFFRACTION PROBLEM FROM A SEMI-INFINITE TRUNCATED CONE WITH THE CLOSED END. Progress in Electromagnetics Research C, 2018, 88, 251-267.	0.9	2
26	Wiener-Hopf Analysis of the High-Frequency Diffraction by a Strip. IEEJ Transactions on Fundamentals and Materials, 1993, 113, 157-166.	0.2	1
27	Wave scattering and emission by a plasmonic strip placed into a circular quantum wire. , 2016, , .		1
28	Complex eigenvalues of natural TM â€oscillations in an open resonator formed by two sinusoidally corrugated metallic strips. IET Microwaves, Antennas and Propagation, 2021, 15, 1283-1298.	1.4	1
29	RCS analysis of canonical, two-dimensional material-loaded cavities with rectangular and circular cross sections. Annales Des Telecommunications/Annals of Telecommunications, 1995, 50, 517-522.	2.5	0
30	Wiener-Hopf analysis of the plane wave diffraction by a finite parallel-plate waveguide with four-layer material loading. , 2010, , .		0
31	Radar cross section of a finite parallel-plate waveguide with material loading: A rigorous Wiener-Hopf approach. , 2015, , .		0
32	Rigorous RCS analysis of a finite parallel-plate waveguide with material loading. , 2016, , .		0
33	Wiener-Hopf analysis of the diffraction by a thin material strip. , 2016, , .		0
34	Radar cross section analysis of a thin material strip. , 2016, , .		0
35	Introduction to special issue of the 2015 URSI-Japan Radio Science Meeting. Radio Science, 2017, 52, 430-431.	1.6	0
36	Plane wave diffraction by a thin material strip: The case of E polarization. , 2017, , .		0

#	Article	IF	Citations
37	Multiple scattering of E-polarized plane waves from a finite number of sinusoidal corrugated strips. , 2018, , .		0
38	Plane Wave Diffraction by a Thin Material Strip. , 2018, , .		0
39	Thank You to Our 2019 Reviewers. Radio Science, 2020, 55, e2020RS007117.	1.6	0
40	Thank You to Our 2020 Reviewers. Radio Science, 2021, 56, e2021RS007287.	1.6	0
41	Diffraction by a Finite Parallel-Plate Waveguide with Sinusoidal Wall Corrugation. , 2021, , .		0
42	Diffraction by a Semi-Infinite Parallel-Plate Waveguide with Five-Layer Material Loading: A Rigorous Solution Based on the Wiener-Hopf Technique. , 2021, , .		0
43	Special Issue on 2001 Electromagnetic Theory Symposium. IEEJ Transactions on Fundamentals and Materials, 2002, 122, 1003-1004.	0.2	0
44	Preface to Special Issue on â€œElectromagnetic Technologies for Forecasting and Monitoring Natural Hazardsâ€. IEEJ Transactions on Fundamentals and Materials, 2009, 129, 839-839.	0.2	0
45	Thank You to Our 2021 Reviewers. Radio Science, 2022, 57, .	1.6	0