

Koichi Narahara

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73 papers	204 citations	7 h-index	9 g-index
78 ext. papers	246 ext. citations	1.5 avg, IF	4.04 L-index

#	Paper	IF	Citations
73	Graphene-based plasmonic metamaterial for terahertz laser transistors. <i>Nanophotonics</i> , 2022 ,	6.3	3
72	Broadband reduction of phase noise in a spatially extended tunnel-diode oscillator through multiple self-injection locking. <i>International Journal of Circuit Theory and Applications</i> , 2022 , 50, 1342-1352	2.2	0
71	Self-sustained solitary waves in a tunnel diode oscillator lattice and their applications in frequency division. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 505-512	2	2
70	Transition Dynamics of Multistable Tunnel-Diode Oscillator Used for Effective Amplitude Modulation. <i>IEICE Transactions on Electronics</i> , 2021 , E104.C, 40-43	0.4	
69	Submillimeter-Wave Multiphase Oscillation Using Traveling Pulses in a Resonant-Tunneling Diode-Oscillator Lattice. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2021 , 42, 426-445	2.2	3
68	Generation of Large-Amplitude Pulses through the Pulse Shortening Superposed in Series-Connected Tunnel-Diode Transmission Line. <i>IEICE Transactions on Electronics</i> , 2021 , E104.C, 394-397	0.4	4
67	Interaction of Self-Sustained Pulses in Tunnel-Diode Oscillator Lattices. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-14	1.1	0
66	Self-injection Locking of Rotary Traveling Pulses in Resonant-Tunneling-Diode Transmission-Line Loop. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 590-604	2.2	
65	Injection Locking of Rotary Dissipative Solitons in Closed Traveling-Wave Field-Effect Transistor. <i>IEICE Transactions on Electronics</i> , 2020 , E103.C, 693-696	0.4	
64	Dissipative Discrete Breathers in Series-Connected Tunnel Diode Oscillator Lattice. <i>Journal of the Physical Society of Japan</i> , 2020 , 89, 074005	1.5	0
63	Leapfrogging solitary waves in coupled traveling-wave field-effect transistors. <i>Nonlinear Dynamics</i> , 2019 , 97, 1359-1369	5	
62	Frequency Divider Using One-Dimensional Tunnel-Diode Oscillator Lattice Systems. <i>IEICE Transactions on Electronics</i> , 2019 , E102.C, 845-848	0.4	1
61	Dynamics of traveling pulses developed in a tunnel diode oscillator ring for multiphase oscillation. <i>Nonlinear Dynamics</i> , 2019 , 95, 2729-2743	5	8
60	Full-wave analysis of traveling pulses developed in a system of transmission lines with regularly spaced resonant-tunneling diodes. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 671-682	2.2	2
59	Large-amplitude voltage edge oscillating in a transmission line with regularly spaced series-connected resonant-tunneling diodes. <i>IEICE Electronics Express</i> , 2018 , 15, 20180678-20180678	0.5	3
58	Characterization of a hard-type oscillator using series-connected tunnel diodes. <i>IEICE Electronics Express</i> , 2018 , 15, 20180355-20180355	0.5	4
57	Synchronization of dissipative solitons in a system of closed traveling-wave field-effect transistors. <i>Nonlinear Dynamics</i> , 2018 , 94, 711-721	5	3

56	Modulation of Pulse Train Using Leapfrogging Pulses Developed in Unbalanced Coupled Nonlinear Transmission Lines. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-7	1.1	2
55	Dynamics of dissipative solitons developed in a closed traveling-wave field-effect transistor. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 2000-2010	2	4
54	Mutual synchronization of oscillating pulse edges in point-coupled transmission lines with regularly spaced tunnel diodes. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 42, 236-246	3.7	4
53	Multiphase Oscillator Using Traveling Pulses Developed in a System of Transmission Lines with Regularly Spaced Resonant-tunneling Diodes. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017 , 38, 660-678	2.2	6
52	Experimental characterization of mutually synchronized voltage edges in point-coupled tunnel diode transmission lines. <i>IEICE Electronics Express</i> , 2017 , 14, 20170054-20170054	0.5	1
51	Numerical characterization of nonlinear oscillatory waves in a composite right- and left-handed traveling-wave field-effect transistor. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 774-789	2	1
50	Multiphase oscillator using dissipatively coupled transmission lines with regularly spaced tunnel diodes. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 1115-1128	2	2
49	Harmonic resonance in a composite right-handed and left-handed transmission line periodically loaded with Schottky varactors. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 492-503	3	1
48	Numerical Characterization of Dyakonov-Shur Instability in Gated Two-Dimensional Electron Systems. <i>International Journal of High Speed Electronics and Systems</i> , 2016 , 25, 1640024	0.5	0
47	Asymmetrical solitary waves in coupled nonlinear transmission lines. <i>Wave Motion</i> , 2015 , 58, 13-21	1.8	5
46	Characterization of leapfrogging solitary waves in coupled nonlinear transmission lines. <i>Nonlinear Dynamics</i> , 2015 , 81, 1805-1814	5	5
45	Head-on collision of solitary waves in coupled Korteweg-de Vries systems modeling nonlinear transmission lines. <i>Wave Motion</i> , 2014 , 51, 935-946	1.8	2
44	Efficiency of three-wave mixing in nonlinear composite right- and left-handed transmission lines. <i>IEICE Electronics Express</i> , 2014 , 11, 20140547-20140547	0.5	2
43	Soliton decay in composite right- and left-handed transmission lines periodically loaded with Schottky varactors. <i>IEICE Electronics Express</i> , 2014 , 11, 20140881-20140881	0.5	1
42	Characterization of collision-induced generation of pulses in coupled electrical nonlinear transmission lines. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 067301	1.4	2
41	Characterization of edge oscillation in a traveling-wave field-effect transistor. <i>Physical Review E</i> , 2013 , 88, 012907	2.4	1
40	External synchronization of oscillating pulse edge on a transmission line with regularly spaced tunnel diodes. <i>Physical Review E</i> , 2013 , 87, 012902	2.4	7
39	Reverse Doppler effect in left-handed travelling-wave field-effect transistors. <i>IEICE Electronics Express</i> , 2013 , 10, 20120963-20120963	0.5	

38	EXPERIMENTAL OBSERVATION OF LINEAR AND NONLINEAR PULSES IN TRAVELING-WAVE FIELD-EFFECT TRANSISTORS PERIODICALLY LOADED WITH SCHOTTKY VARACTORS. <i>Progress in Electromagnetics Research B</i> , 2012 , 37, 387-401	0.7	1
37	EXPERIMENTAL OBSERVATION OF COLLISIONS OF NONLINEAR ENVELOPE PULSES IN LEFT-HANDED TRANSMISSION LINES PERIODICALLY LOADED WITH SCHOTTKY VARACTORS. <i>Progress in Electromagnetics Research C</i> , 2012 , 26, 59-70	0.9	1
36	Collision of nonlinear pulses in traveling-wave field effect transistors loaded with Schottky varactors. <i>Journal of Applied Physics</i> , 2012 , 111, 044910	2.5	2
35	CHARACTERIZATION OF TWO-DIMENSIONAL LEFT-HANDED TRAVELING-WAVE FIELD-EFFECT TRANSISTORS. <i>Progress in Electromagnetics Research Letters</i> , 2012 , 30, 1-12	0.5	
34	COMPENSATION OF WAVE ATTENUATION IN LEFT-HANDED TRAVELING-WAVE FIELD-EFFECT TRANSISTORS. <i>Progress in Electromagnetics Research Letters</i> , 2012 , 28, 195-205	0.5	4
33	Development of shock waves in traveling-wave field-effect transistors. <i>Journal of Applied Physics</i> , 2012 , 112, 084914	2.5	1
32	Composite Right- and Left-Handed Traveling-Wave Field-Effect Transistors. <i>Active and Passive Electronic Components</i> , 2012 , 2012, 1-7	0.3	1
31	Full-Wave Analysis of Traveling-Wave Field-Effect Transistors Using Finite-Difference Time-Domain Method. <i>International Journal of Antennas and Propagation</i> , 2012 , 2012, 1-9	1.2	1
30	EXPERIMENTAL OBSERVATION OF PULSE-SHORTENING PHENOMENA IN TRAVELING-WAVE FIELD EFFECT TRANSISTORS. <i>Progress in Electromagnetics Research Letters</i> , 2011 , 21, 79-88	0.5	2
29	PROPERTIES OF ENVELOPE PULSES DEVELOPED IN COUPLED NONLINEAR COMPOSITE RIGHT- AND LEFT-HANDED TRANSMISSION LINES. <i>Progress in Electromagnetics Research M</i> , 2011 , 20, 155-169	0.6	
28	NONLINEAR TRAVELING-WAVE FIELD-EFFECT TRANSISTORS FOR MANAGING DISPERSION-FREE ENVELOPE PULSES. <i>Progress in Electromagnetics Research Letters</i> , 2011 , 23, 29-38	0.5	
27	COLLISION OF NONLINEAR ENVELOPE PULSES DEVELOPED IN COMPOSITE RIGHT- AND LEFT-HANDED TRANSMISSION LINES PERIODICALLY LOADED WITH SCHOTTKY VARACTORS. <i>Progress in Electromagnetics Research C</i> , 2011 , 21, 1-12	0.9	2
26	Characterization of Short-Pulse Generation Using Traveling-Wave Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 014104	1.4	2
25	Characterization of Short-Pulse Generation Using Traveling-Wave Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 014104	1.4	1
24	COUPLED NONLINEAR TRANSMISSION LINES FOR DOUBLING REPETITION RATE OF INCIDENT PULSE STREAMS. <i>Progress in Electromagnetics Research Letters</i> , 2010 , 16, 69-78	0.5	5
23	INTERACTION OF NONLINEAR PULSES DEVELOPED IN COUPLED TRANSMISSION LINES REGULARLY SPACED SCHOTTKY VARACTORS. <i>Progress in Electromagnetics Research Letters</i> , 2010 , 17, 85-93	0.5	5
22	Generation of short electrical pulses using nonlinear traveling-wave field effect transistors. <i>IEICE Electronics Express</i> , 2010 , 7, 1474-1479	0.5	1
21	Dynamics of oscillating pulse edges in two-dimensional switch lines. <i>IEICE Electronics Express</i> , 2010 , 7, 314-319	0.5	1

20	Experimental characterization of left-handed transmission lines with regularly spaced Schottky varactors. <i>IEICE Electronics Express</i> , 2010 , 7, 608-614	0.5	13
19	Nonlinear traveling-wave field effect transistors for amplification of short electrical pulses. <i>IEICE Electronics Express</i> , 2010 , 7, 1188-1194	0.5	16
18	Characterization of Oscillating Pulse Edges in Switch Lines for Development of Widely Tunable Voltage-Controlled Oscillators. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 084502	1.4	1
17	Experimental Observation of Oscillating Wave Propagation on Switch Lines for Generation of Continuous Electromagnetic Waves 2009 , 2009, 1-4		
16	Characterization of Nonlinear Transmission Lines for Short Pulse Amplification. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2009 , 31, 411	2.2	2
15	Amplification of short pulses in transmission lines periodically loaded with Schottky varactors. <i>IEICE Electronics Express</i> , 2009 , 6, 1199-1204	0.5	2
14	Short envelope pulse propagation in composite right- and left-handed transmission lines with regularly spaced Schottky varactors. <i>IEICE Electronics Express</i> , 2009 , 6, 1576-1581	0.5	12
13	Characterization of one- and two-dimensional switch lines for controlling traveling pulses. <i>IEICE Electronics Express</i> , 2009 , 6, 769-773	0.5	1
12	Characterization of Left-Handed Traveling-Wave Transistors. <i>IEICE Transactions on Electronics</i> , 2009 , E92-C, 1396-1400	0.4	2
11	Nonlinear Plasma Waves in Coupled Two-Dimensional Electron Systems. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 8756-8760	1.4	2
10	Full-Wave Analysis of Quasi-Steady Propagation along Transmission Lines Periodically Loaded with Resonant Tunneling Diodes. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1126-1129	1.4	7
9	Characterization of plasma waves in gated two-dimensional electron systems. <i>Journal of Applied Physics</i> , 2008 , 103, 023301	2.5	3
8	Experimental characterization of short-pulse generation using switch lines. <i>IEICE Electronics Express</i> , 2008 , 5, 973-977	0.5	9
7	CHARACTERIZATION OF VOLTAGE-CONTROLLED OSCILLATOR USING RTD TRANSMISSION LINE. <i>International Journal of High Speed Electronics and Systems</i> , 2007 , 17, 577-584	0.5	3
6	Electromagnetic continuous-wave generation using switch lines. <i>Journal of Applied Physics</i> , 2006 , 100, 064908	2.5	10
5	Compression of Electrical Pulses Using Traveling-Wave Field Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 4688-4695	1.4	2
4	A Traveling-wave Time-division Demultiplexer. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 4021-4026	1.4	2
3	Characterization of Wave Propagation on Traveling-Wave Field Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 6328-6339	1.4	7

- 2 Traversable wormhole in the expanding universe. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1994**, 336, 319-323 4.2 4
- 1 Interaction of rotary pulses in a closed lattice of tunnel diode oscillators. *Nonlinear Dynamics*, 1 5