

Toshihiro Nakanishi

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,102
citations

361045

20
h-index

414034

32
g-index

51
all docs

51
docs citations

51
times ranked

1094
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstration of negative group delays in a simple electronic circuit. American Journal of Physics, 2002, 70, 1117-1121.	0.3	97
2	Ultrafast optical control of group delay of narrow-band terahertz waves. Scientific Reports, 2014, 4, 4346.	1.6	76
3	Observation of flat band for terahertz spoof plasmons in a metallic kagom� lattice. Physical Review B, 2012, 85, .	1.1	66
4	Storage of electromagnetic waves in a metamaterial that mimics electromagnetically induced transparency. Physical Review B, 2013, 87, .	1.1	61
5	Plane-wave scattering by self-complementary metasurfaces in terms of electromagnetic duality and Babinet's principle. Physical Review B, 2013, 88, .	1.1	56
6	A linear-to-circular polarization converter with half transmission and half reflection using a single-layered metamaterial. Applied Physics Letters, 2014, 105, .	1.5	50
7	Frequency-Independent Response of Self-Complementary Checkerboard Screens. Physical Review Letters, 2015, 114, 237401.	2.9	40
8	Observation of a nonradiative flat band for spoof surface plasmons in a metallic Lieb lattice. Physical Review B, 2016, 93, .	1.1	39
9	Observation of Brewster's effect for transverse-electric electromagnetic waves in metamaterials: Experiment and theory. Physical Review B, 2006, 73, .	1.1	37
10	Dynamically Babinet-invertible metasurface: a capacitive-inductive reconfigurable filter for terahertz waves using vanadium-dioxide metal-insulator transition. Optics Express, 2016, 24, 4405.	1.7	35
11	Geometrical aspects of weak measurements and quantum erasers. New Journal of Physics, 2009, 11, 093025.	1.2	34
12	Variable group delay in a metamaterial with field-gradient-induced transparency. Physical Review B, 2012, 85, .	1.1	33
13	Efficient second harmonic generation in a metamaterial with two resonant modes coupled through two varactor diodes. Applied Physics Letters, 2012, 100, .	1.5	32
14	Electromagnetically induced transparency like transmission in a metamaterial composed of cut-wire pairs with indirect coupling. Physical Review B, 2014, 89, .	1.1	29
15	Absorption-free optical control of spin systems: The quantum Zeno effect in optical pumping. Physical Review A, 2001, 65, .	1.0	27
16	Anisotropic Babinet-Invertible Metasurfaces to Realize Transmission-Reflection Switching for Orthogonal Polarizations of Light. Physical Review Applied, 2016, 6, .	1.5	27
17	Storage and retrieval of electromagnetic waves using electromagnetically induced transparency in a nonlinear metamaterial. Applied Physics Letters, 2018, 112, .	1.5	27
18	Enhancement of second harmonic generation in a doubly resonant metamaterial. Applied Physics Letters, 2011, 99, 024101.	1.5	23

#	ARTICLE	IF	CITATIONS
19	Reconfigurable Terahertz Quarter-Wave Plate for Helicity Switching Based on Babinet Inversion of an Anisotropic Checkerboard Metasurface. <i>Physical Review Applied</i> , 2019, 11, .	1.5	22
20	Ultrafast Frequency-Shift Dynamics at Temporal Boundary Induced by Structural-Dispersion Switching of Waveguides. <i>Physical Review Letters</i> , 2021, 127, 053902.	2.9	22
21	Broadband and energy-concentrating terahertz coherent perfect absorber based on a self-complementary metasurface. <i>Optics Letters</i> , 2016, 41, 4472.	1.7	22
22	Freestanding transparent terahertz half-wave plate using subwavelength cut-wire pairs. <i>Optics Express</i> , 2017, 25, 2107.	1.7	20
23	Electromagnetic response of a metamaterial with field-gradient-induced transparency. <i>Physical Review B</i> , 2010, 82, .	1.1	19
24	Circuit model for hybridization modes in metamaterials and its analogy to the quantum tight-binding model. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2293-2302.	0.7	19
25	An invisible medium for circularly polarized electromagnetic waves. <i>Optics Express</i> , 2008, 16, 20869.	1.7	18
26	Implementation of Electromagnetically Induced Transparency in a Metamaterial Controlled with Auxiliary Waves. <i>Physical Review Applied</i> , 2015, 4, .	1.5	17
27	Direct observation of geometric phases using a three-pinhole interferometer. <i>Physical Review A</i> , 2010, 81, .	1.0	16
28	Observation of Geometric Phases in Quantum Erasers. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 034401.	0.7	14
29	A framework for measuring weak values without weak interactions and its diagrammatic representation. <i>New Journal of Physics</i> , 2019, 21, 043013.	1.2	14
30	Broadband operation of active terahertz quarter-wave plate achieved with vanadium-dioxide-based metasurface switchable by current injection. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	14
31	Classical realization of dispersion cancellation by time-reversal method. <i>Physical Review A</i> , 2015, 91, .	1.0	12
32	Dynamic Quarter-Wave Metasurface for Efficient Helicity Inversion of Polarization Beyond the Single-Layer Conversion Limit. <i>Advanced Optical Materials</i> , 2022, 10, 2101615.	3.6	9
33	Transmission properties of double-gap asymmetric split ring resonators in terahertz region. <i>Applied Physics Letters</i> , 2012, 101, 051112.	1.5	8
34	Observation of nonlinear variations in a three-vertex geometric phase in a two-photon polarization qutrit. <i>Physical Review A</i> , 2015, 91, .	1.0	8
35	Supersymmetric correspondence in spectra on a graph and its line graph: From circuit theory to spoof plasmons on metallic lattices. <i>Physical Review A</i> , 2016, 93, .	1.0	8
36	Observation of modulation instability in a nonlinear magnetoinductive waveguide. <i>Physical Review B</i> , 2013, 87, .	1.1	7

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37	Time-reversed two-photon interferometry for phase superresolution. <i>Physical Review A</i> , 2013, 88, .	1.0	7
38	Geometric Structure behind Duality and Manifestation of Self-Duality from Electrical Circuits to Metamaterials. <i>Symmetry</i> , 2019, 11, 1336.	1.1	6
39	Simulation of slow light with electronic circuits. <i>American Journal of Physics</i> , 2005, 73, 323-329.	0.3	5
40	Theoretical study on dynamical planar-chirality switching in checkerboard-like metasurfaces. <i>EPJ Applied Metamaterials</i> , 2017, 4, 2.	0.8	5
41	Full Quantum Analysis of Two-Photon Absorption Using Two-Photon Wave Function: Comparison of Two-Photon Absorption with One-Photon Absorption. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 104401.	0.7	4
42	Observation of Fano resonance using a coupled resonator metamaterial composed of meta-atoms arranged by double periodicity. <i>Applied Physics Express</i> , 2016, 9, 012201.	1.1	4
43	Dynamic inversion of planar-chiral response of terahertz metasurface based on critical transition of checkerboard structures. <i>Nanophotonics</i> , 2022, 11, 2057-2064.	2.9	4
44	Direct measurement of ultrafast temporal wavefunctions. <i>Optics Express</i> , 2021, 29, 19403.	1.7	3
45	Generation of photon pairs using polarization-dependent two-photon absorption. <i>Physical Review A</i> , 2003, 67, .	1.0	2
46	Coupled-resonator-based metamaterials. <i>IEICE Electronics Express</i> , 2012, 9, 51-64.	0.3	2
47	Two-Photon Interference of Photon Pairs Created in Photonic Crystal Fibers. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 024402.	0.7	1
48	VO2 films on flexible thin polyimide films: Fabrication and characterization of electrical and optical properties in insulator-metal transition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .	0.9	1
49	Storage and Retrieval of Electromagnetic Waves in Metamaterials by Dynamical Control of EIT-Like Effect. <i>Springer Series in Optical Sciences</i> , 2018, , 137-156.	0.5	0
50	Classical Realization of Dispersion Cancellation by Using Transform-limited Pulses. , 2014, , .		0
51	Meta-atoms Emulating Quantum Systems. <i>Springer Series in Materials Science</i> , 2019, , 169-185.	0.4	0