

# Makoto Naruse

## List of Publications by Citations

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157  
papers

1,987  
citations

24  
h-index

36  
g-index

195  
ext. papers

2,409  
ext. citations

2.9  
avg, IF

4.79  
L-index

#	Paper	IF	Citations
157	Roadmap on optical security. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 083001	1.7	243
156	Nanophotonics: Application of Dressed Photons to Novel Photonic Devices and Systems. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2008</b> , 14, 1404-1417	3.8	62
155	Demonstration of nanophotonic NOT gate using near-field optically coupled quantum dots. <i>Applied Physics B: Lasers and Optics</i> , <b>2006</b> , 84, 243-246	1.9	57
154	Single-photon decision maker. <i>Scientific Reports</i> , <b>2015</b> , 5, 13253	4.9	54
153	Novel frontier of photonics for data processing: photonic accelerator. <i>APL Photonics</i> , <b>2019</b> , 4, 090901	5.2	52
152	Ultrafast photonic reinforcement learning based on laser chaos. <i>Scientific Reports</i> , <b>2017</b> , 7, 8772	4.9	51
151	Amoeba-inspired nanoarchitectonic computing: solving intractable computational problems using nanoscale photoexcitation transfer dynamics. <i>Langmuir</i> , <b>2013</b> , 29, 7557-64	4	48
150	Two-dimensional array of room-temperature nanophotonic logic gates using InAs quantum dots in mesa structures. <i>Applied Physics B: Lasers and Optics</i> , <b>2011</b> , 103, 537-546	1.9	43
149	Principles of Nanophotonics		43
148	Decision maker based on nanoscale photo-excitation transfer. <i>Scientific Reports</i> , <b>2013</b> , 3, 2370	4.9	35
147	Realization of an atomically flat surface of diamond using dressed photon-phonon etching. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 475302	3	32
146	Hierarchy in optical near-fields and its application to memory retrieval. <i>Optics Express</i> , <b>2005</b> , 13, 9265-71	3.3	32
145	Scalable photonic reinforcement learning by time-division multiplexing of laser chaos. <i>Scientific Reports</i> , <b>2018</b> , 8, 10890	4.9	32
144	Flat-band light dynamics in Stub photonic lattices. <i>Scientific Reports</i> , <b>2017</b> , 7, 15085	4.9	30
143	Decision making based on optical excitation transfer via near-field interactions between quantum dots. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 154303	2.5	30
142	Structural dependency of optical excitation transfer via optical near-field interactions between semiconductor quantum dots. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 100, 181-187	1.9	29
141	Design, implementation and characterization of a quantum-dot-based volumetric display. <i>Scientific Reports</i> , <b>2015</b> , 5, 8472	4.9	28

140	Information physics fundamentals of nanophotonics. <i>Reports on Progress in Physics</i> , <b>2013</b> , 76, 056401	14.4	27
139	Nanometric summation architecture based on optical near-field interaction between quantum dots. <i>Optics Letters</i> , <b>2005</b> , 30, 201-3	3	27
138	Lower bound of energy dissipation in optical excitation transfer via optical near-field interactions. <i>Optics Express</i> , <b>2010</b> , 18 Suppl 4, A544-53	3.3	26
137	Spatiotemporal dynamics in optical energy transfer on the nanoscale and its application to constraint satisfaction problems. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	26
136	Analysis and Synthesis of Hierarchy in Optical Near-Field Interactions at the Nanoscale Based on Angular Spectrum. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 6095-6103	1.4	26
135	Quadrupole-dipole transform based on optical near-field interactions in engineered nanostructures. <i>Optics Express</i> , <b>2009</b> , 17, 11113-21	3.3	25
134	Hierarchical hologram based on optical near- and far-field responses. <i>Optics Express</i> , <b>2008</b> , 16, 607-12	3.3	24
133	Nanophotonic Computing Based on Optical Near-Field Interactions between Quantum Dots. <i>IEICE Transactions on Electronics</i> , <b>2005</b> , E88-C, 1817-1823	0.4	24
132	Dynamic channel selection in wireless communications via a multi-armed bandit algorithm using laser chaos time series. <i>Scientific Reports</i> , <b>2020</b> , 10, 1574	4.9	23
131	Amoeba-inspired nanoarchitectonic computing implemented using electrical Brownian ratchets. <i>Nanotechnology</i> , <b>2015</b> , 26, 234001	3.4	23
130	Tamper resistance in optical excitation transfer based on optical near-field interactions. <i>Optics Letters</i> , <b>2007</b> , 32, 1761-3	3	22
129	Challenges in realizing ultraflat materials surfaces. <i>Beilstein Journal of Nanotechnology</i> , <b>2013</b> , 4, 875-85	3	21
128	Optical interconnects based on optical far- and near-field interactions for high-density data broadcasting. <i>Optics Express</i> , <b>2006</b> , 14, 306-13	3.3	21
127	Nanophotonic code embedded in embossed hologram for hierarchical information retrieval. <i>Optics Express</i> , <b>2010</b> , 18, 7497-505	3.3	20
126	Harnessing the Computational Power of Fluids for Optimization of Collective Decision Making. <i>Philosophies</i> , <b>2016</b> , 1, 245-260	0.7	20
125	Optical security based on near-field processes at the nanoscale. <i>Journal of Optics (United Kingdom)</i> , <b>2012</b> , 14, 094002	1.7	19
124	Optimal mixture of randomly dispersed quantum dots for optical excitation transfer via optical near-field interactions. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	18
123	Self-organized near-field etching of the sidewalls of glass corrugations. <i>Applied Physics B: Lasers and Optics</i> , <b>2011</b> , 103, 527-530	1.9	17

122	Reconfigurable optical interconnections for parallel computing. <i>Proceedings of the IEEE</i> , <b>2000</b> , 88, 829-837.	4.3	17
121	Real-time active alignment demonstration for free-space optical interconnections. <i>IEEE Photonics Technology Letters</i> , <b>2001</b> , 13, 1257-1259	2.2	17
120	Optoelectronic parallel computing using optically interconnected pipelined processing arrays. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>1999</b> , 5, 250-260	3.8	16
119	Improving throughput using multi-armed bandit algorithm for wireless LANs. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2018</b> , 9, 74-81	0.6	16
118	Nano-artifact metrics based on random collapse of resist. <i>Scientific Reports</i> , <b>2014</b> , 4, 6142	4.9	15
117	Amoeba-inspired computing architecture implemented using charge dynamics in parallel capacitance network. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 163703	3.4	15
116	In situ real-time monitoring of changes in the surface roughness during nonadiabatic optical near-field etching. <i>Nanotechnology</i> , <b>2010</b> , 21, 355303	3.4	15
115	Autonomy in excitation transfer via optical near-field interactions and its implications for information networking. <i>Nano Communication Networks</i> , <b>2011</b> , 2, 189-195	2.9	14
114	Energy dissipation in energy transfer mediated by optical near-field interactions and their interfaces with optical far-fields. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 241102	3.4	14
113	Repairing nanoscale scratched grooves on polycrystalline ceramics using optical near-field assisted sputtering. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 99, 75-78	1.9	14
112	Design and Simulation of a Nanophotonic Traceable Memory Using Localized Energy Dissipation and Hierarchy of Optical Near-Field Interactions. <i>IEEE Nanotechnology Magazine</i> , <b>2008</b> , 7, 14-19	2.6	14
111	Decision making for the multi-armed bandit problem using lag synchronization of chaos in mutually coupled semiconductor lasers. <i>Optics Express</i> , <b>2019</b> , 27, 26989-27008	3.3	14
110	Single Photon in Hierarchical Architecture for Physical Decision Making: Photon Intelligence. <i>ACS Photonics</i> , <b>2016</b> , 3, 2505-2514	6.3	14
109	Memory Effect on Adaptive Decision Making with a Chaotic Semiconductor Laser. <i>Complexity</i> , <b>2018</b> , 2018, 1-8	1.6	13
108	On-chip photonic decision maker using spontaneous mode switching in a ring laser. <i>Scientific Reports</i> , <b>2019</b> , 9, 9429	4.9	13
107	Optical pulsation mechanism based on optical near-field interactions. <i>Applied Physics B: Lasers and Optics</i> , <b>2011</b> , 102, 717-723	1.9	13
106	Information theoretical analysis of hierarchical nano-optical systems in the subwavelength regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2009</b> , 26, 1772	1.7	12
105	Polarization in optical near and far fields and its relation to shape and layout of nanostructures. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 113525	2.5	12

104	Nanophotonic Matching by Optical Near-Fields between Shape-Engineered Nanostructures. <i>Applied Physics Express</i> , <b>2008</b> , 1, 112101	2.4	12
103	Ultrafast all-optical NOR gate based on intersubband and interband transitions. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 1701-1703	2.2	12
102	Entangled-photon decision maker. <i>Scientific Reports</i> , <b>2019</b> , 9, 12229	4.9	11
101	Unidirectional light propagation through two-layer nanostructures based on optical near-field interactions. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2014</b> , 31, 2404	1.7	11
100	Demonstration of 10 Gbit Ethernet/Optical-Packet Converter for IP Over Optical Packet Switching Network. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 2379-2380	4	11
99	Fixed-distance coupling and encapsulation of heterogeneous quantum dots using phonon-assisted photo-curing. <i>Applied Physics B: Lasers and Optics</i> , <b>2013</b> , 110, 39-45	1.9	10
98	A stochastic modeling of morphology formation by optical near-field processes. <i>Applied Physics B: Lasers and Optics</i> , <b>2011</b> , 105, 185-190	1.9	10
97	Generative adversarial network based on chaotic time series. <i>Scientific Reports</i> , <b>2019</b> , 9, 12963	4.9	9
96	Chaotic oscillation and random-number generation based on nanoscale optical-energy transfer. <i>Scientific Reports</i> , <b>2014</b> , 4, 6039	4.9	9
95	Optical Addressing of Multi-Colour Photochromic Material Mixture for Volumetric Display. <i>Scientific Reports</i> , <b>2016</b> , 6, 31543	4.9	9
94	Analysis of surface roughness of optical elements planarized by nonadiabatic optical near-field etching. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 063516	2.5	9
93	Generating small-scale structures from large-scale ones via optical near-field interactions. <i>Optics Express</i> , <b>2007</b> , 15, 11790-7	3.3	9
92	Experimental demonstration and stochastic modeling of autonomous formation of nanophotonic droplets. <i>Applied Physics B: Lasers and Optics</i> , <b>2013</b> , 112, 587-592	1.9	8
91	Skew Dependence of Nanophotonic Devices Based on Optical Near-Field Interactions. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , <b>2012</b> , 8, 1-12	1.7	8
90	Femtosecond timing measurement and control using ultrafast organic thin films. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4869-4871	3.4	8
89	Laser network decision making by lag synchronization of chaos in a ring configuration. <i>Optics Express</i> , <b>2020</b> , 28, 40112-40130	3.3	8
88	Energy Transfer in Multi-Stacked InAs Quantum Dots. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 04DH05	4.5	8
87	Analysis of Soft Robotics Based on the Concept of Category of Mobility. <i>Complexity</i> , <b>2019</b> , 2019, 1-12	1.6	7

86	Randomness in highly reflective silver nanoparticles and their localized optical fields. <i>Scientific Reports</i> , <b>2014</b> , 4, 6077	4.9	7
85	Category Theoretic Analysis of Photon-Based Decision Making. <i>International Journal of Information Technology and Decision Making</i> , <b>2018</b> , 17, 1305-1333	2.8	7
84	Optical nano artifact metrics using silicon random nanostructures. <i>Scientific Reports</i> , <b>2016</b> , 6, 32438	4.9	7
83	Nanophotonic droplet: a nanometric optical device consisting of size- and number-selective coupled quantum dots. <i>Applied Physics B: Lasers and Optics</i> , <b>2013</b> , 110, 293-297	1.9	7
82	Demonstration of modulatable optical near-field interactions between dispersed resonant quantum dots. <i>Optics Express</i> , <b>2011</b> , 19, 18260-71	3.3	7
81	Efficient optical excitation transfer in layered quantum dot nanostructures networked via optical near-field interactions. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	7
80	Stochastic processes in light-assisted nanoparticle formation. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 193106	3.4	7
79	Hierarchy in Optical Near-fields by Nano-scale Shape Engineering and its Application to Traceable Memory. <i>Applied Physics Express</i> , <b>2008</b> , 1, 062004	2.4	7
78	Terabit all-optical logic based on ultrafast two-dimensional transmission gating. <i>Optics Letters</i> , <b>2004</b> , 29, 608-10	3	7
77	Decision Making Photonics: Solving Bandit Problems Using Photons. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2020</b> , 26, 1-10	3.8	7
76	Nano-optical functionality based on local photoisomerization in photochromic single crystal. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	7
75	Unveiling the mechanisms of dressed-photon-phonon etching based on hierarchical surface roughness measure. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 071603	3.4	6
74	Energy Transfer in Multi-Stacked InAs Quantum Dots. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 04DH05	4.05	6
73	Analysis and characterization of alignment for free-space optical interconnects based on singular-value decomposition. <i>Applied Optics</i> , <b>2000</b> , 39, 293-301	1.7	6
72	Generation of Schubert polynomial series via nanometre-scale photoisomerization in photochromic single crystal and double-probe optical near-field measurements. <i>Scientific Reports</i> , <b>2020</b> , 10, 2710	4.9	5
71	Near-field surface plasmon field enhancement induced by rippled surfaces. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 956-967	3	5
70	Optical near-field-mediated polarization asymmetry induced by two-layer nanostructures. <i>Optics Express</i> , <b>2013</b> , 21, 21857-70	3.3	5
69	Nanoscale Photonic Network for Solution Searching and Decision Making Problems. <i>IEICE Transactions on Communications</i> , <b>2013</b> , E96.B, 2724-2732	0.5	5

68	2007,			5
67	Multistage network with globally controlled switching stages and its implementation using optical multi-interconnection modules. <i>Journal of Lightwave Technology</i> , <b>2004</b> , 22, 315-328	4		5
66	Random walk with chaotically driven bias. <i>Scientific Reports</i> , <b>2016</b> , 6, 38634	4.9		5
65	Analysis on Effectiveness of Surrogate Data-Based Laser Chaos Decision Maker. <i>Complexity</i> , <b>2021</b> , 2021, 1-9	1.6		5
64	Nanometre-scale pattern formation on the surface of a photochromic crystal by optical near-field induced photoisomerization. <i>Scientific Reports</i> , <b>2018</b> , 8, 14468	4.9		5
63	Inkjet printing-based volumetric display projecting multiple full-colour 2D patterns. <i>Scientific Reports</i> , <b>2017</b> , 7, 46511	4.9		4
62	A note on the roles of quantum and mechanical models in social biophysics. <i>Progress in Biophysics and Molecular Biology</i> , <b>2017</b> , 130, 103-105	4.7		4
61	Hierarchy in optical near-fields based on compositions of nanomaterials. <i>Applied Physics B: Lasers and Optics</i> , <b>2009</b> , 96, 1-4	1.9		4
60	Transcription of optical near-fields by photoinduced structural change in single crystal metal complexes for parallel nanophotonic processing. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 98, 685-689	1.9		4
59	User pairing using laser chaos decision maker for NOMA systems. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2022</b> , 13, 72-83	0.6		4
58	Entangled N-photon states for fair and optimal social decision making. <i>Scientific Reports</i> , <b>2020</b> , 10, 20420	4.9		4
57	Spectral speckle-correlation imaging. <i>Applied Optics</i> , <b>2021</b> , 60, 2388-2392	1.7		4
56	Arm order recognition in multi-armed bandit problem with laser chaos time series. <i>Scientific Reports</i> , <b>2021</b> , 11, 4459	4.9		4
55	Reservoir computing and decision making using laser dynamics for photonic accelerator. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, 040601	1.4		3
54	Nanoscale hierarchical optical interactions for secure information. <i>Nanophotonics</i> , <b>2016</b> , 6, 613-622	6.3		3
53	Nanophotonics for Low-Power Switches <b>2013</b> , 205-241			3
52	A New Kind of Aesthetics III The Mathematical Structure of the Aesthetic. <i>Philosophies</i> , <b>2017</b> , 2, 14	0.7		3
51	Analysis of optical near-field energy transfer by stochastic model unifying architectural dependencies. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 154306	2.5		3

50	Direct observation of optical excitation transfer based on resonant optical near-field interaction. <i>Applied Physics B: Lasers and Optics</i> , <b>2012</b> , 107, 257-262	1.9	3
49	Simple integration technique to realize parallel optical interconnects: implementation of a pluggable two-dimensional optical data link. <i>Applied Optics</i> , <b>2002</b> , 41, 5538-51	1.7	3
48	Conflict-free collective stochastic decision making by orbital angular momentum of photons through quantum interference. <i>Scientific Reports</i> , <b>2021</b> , 11, 21117	4.9	3
47	Lotka-Volterra Competition Mechanism Embedded in a Decision-Making Method. <i>Journal of the Physical Society of Japan</i> , <b>2020</b> , 89, 014801	1.5	3
46	Dynamic Channel Bonding Using Laser Chaos Decision Maker in WLANs <b>2021</b> ,		3
45	Eigenanalysis of morphological diversity in silicon random nanostructures formed via resist collapse. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2016</b> , 462, 883-888	3.3	3
44	Unidirectional light transmission by two-layer nanostructures interacting via optical near-fields. <i>Applied Physics Express</i> , <b>2019</b> , 12, 022007	2.4	2
43	Stochastic model showing a transition to self-controlled particle-deposition state induced by optical near-fields. <i>Applied Physics B: Lasers and Optics</i> , <b>2015</b> , 120, 247-254	1.9	2
42	Local circular polarizations in nanostructures induced by linear polarization via optical near-fields. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2015</b> , 32, 1797	1.7	2
41	Adaptive model selection in photonic reservoir computing by reinforcement learning. <i>Scientific Reports</i> , <b>2020</b> , 10, 10062	4.9	2
40	Category Theory Approach to Solution Searching Based on Photoexcitation Transfer Dynamics. <i>Philosophies</i> , <b>2017</b> , 2, 16	0.7	2
39	Non-scanning optical near-field microscopy for nanophotonic security. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 121, 1383-1387	2.6	2
38	Demonstration of Controlling the Spatiotemporal Dynamics of Optical Near-Field Excitation Transfer in Y-Junction Structure Consisting of Randomly Distributed Quantum Dots. <i>Advances in Optical Technologies</i> , <b>2014</b> , 2014, 1-8		2
37	Novel Layer-3 IP Packet Switching between 10 Gbps Ethernet and 80 Gbps Optical Packet-Switched Networks <b>2007</b> ,		2
36	Adaptive decision making using a chaotic semiconductor laser for multi-armed bandit problem with time-varying hit probabilities. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2022</b> , 13, 112-122	0.6	2
35	Parallel Retrieval of Nanometer-Scale Light-Matter Interactions for Nanophotonic Systems. <i>Proceedings in Information and Communications Technology</i> , <b>2010</b> , 298-307		2
34	Entangled and correlated photon mixed strategy for social decision making. <i>Scientific Reports</i> , <b>2021</b> , 11, 4832	4.9	2
33	High-speed Optimization of User Pairing in NOMA System Using Laser Chaos Based MAB Algorithm <b>2021</b> ,		2



32	Why is the environment important for decision making? Local reservoir model for choice-based learning. <i>PLoS ONE</i> , <b>2018</b> , 13, e0205161	3.7	2
31	Double-probe atomic force microscopy for observing spatiotemporal dynamics in a photochromic thin film. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 071105	3.4	2
30	Percolation of optical excitation mediated by near-field interactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2017</b> , 471, 162-168	3.3	1
29	Implementation of pulse timing discriminator functionality into a GeSbTe/GeCuTe double layer structure. <i>Optics Express</i> , <b>2017</b> , 25, 26825-26831	3.3	1
28	Observation and analysis of structural changes in fused silica by continuous irradiation with femtosecond laser light having an energy density below the laser-induced damage threshold. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 1334-40	3	1
27	Scale-dependent Optical Near-fields in InAs Quantum Dots and Their Application to Non-pixelated Memory Retrieval. <i>Applied Physics Express</i> , <b>2008</b> , 1, 072101	2.4	1
26	Dynamic channel bonding in WLANs by hierarchical laser chaos decision maker. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2022</b> , 13, 84-100	0.6	1
25	Nanointelligence: Information Physics Fundamentals for Nanophotonics. <i>Nano-optics and Nanophotonics</i> , <b>2014</b> , 1-39	0	1
24	Fast dynamics of low-frequency fluctuations in a quantum-dot laser with optical feedback. <i>Optics Express</i> , <b>2021</b> , 29, 17962-17975	3.3	1
23	Boundary formation in photochromic diarylethene single crystals and its catastrophe theory modeling. <i>Applied Physics Express</i> , <b>2021</b> , 14, 075003	2.4	1
22	Low latency information transfer based on precision time synchronization via wireless interferometry. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2021</b> , 12, 225-235	0.6	1
21	Delay-Bounded Wireless Network Based on Precise Time Synchronization Using Wireless Two-Way Interferometry. <i>IEEE Access</i> , <b>2021</b> , 9, 85084-85100	3.5	1
20	Decision making for large-scale multi-armed bandit problems using bias control of chaotic temporal waveforms in semiconductor lasers.. <i>Scientific Reports</i> , <b>2022</b> , 12, 8073	4.9	1
19	Compressive propagation with coherence.. <i>Optics Letters</i> , <b>2022</b> , 47, 613-616	3	0
18	BER Minimization by User Pairing in Downlink NOMA Using Laser Chaos Decision-Maker. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 1452	2.6	0
17	Efficient Pairing in Unknown Environments: Minimal Observations and TSP-based Optimization. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	0
16	Experimental demonstration of random walk by probability chaos using single photons. <i>Applied Physics Express</i> , <b>2020</b> , 13, 042006	2.4	
15	Physarum-Inspired Electronic and Nanoelectronic Computing Systems. <i>Emergence, Complexity and Computation</i> , <b>2016</b> , 109-132	0.1	

- 14 Probe-Free Nanophotonic Systems: Macroscale Applications Based on Nanophotonics **2013**, 909-942
- 13 Nanophotonic Systems Based on Localized and Hierarchical Optical Near-Field Processes **2013**, 875-907
- 12 A Nanophotonic Computing Paradigm: Problem-Solving and Decision-Making Systems Using Spatiotemporal Photoexcitation Transfer Dynamics. *Nano-optics and Nanophotonics*, **2014**, 223-244 0
- 11 High-bandwidth measurement of femtosecond optical pulse timing based on two-dimensional transmission gating and parallel processing. *Optics Express*, **2005**, 13, 860-6 3.3
- 10 Plasmonic circuits for nanophotonic devices **2006**, 6323, 79
- 9 Optically interconnected pipelined parallel processing system: OCULAR-II **2000**, 4089, 440
- 8 Parallel Confocal Microscope using Vertical-Cavity Surface Emitting Laser Array. *Microscopy and Microanalysis*, **2001**, 7, 1004-1005 0.5
- 7 Experimental demonstration of adaptive model selection based on reinforcement learning in photonic reservoir computing. *Nonlinear Theory and Its Applications IEICE*, **2022**, 13, 123-138 0.6
- 6 Experimental demonstration of channel order recognition in wireless communications by laser chaos time series and confidence intervals. *Nonlinear Theory and Its Applications IEICE*, **2022**, 13, 101-111<sup>0.6</sup>
- 5 Signal processing using optical near-field interactions. *The Review of Laser Engineering*, **2006**, 34, 234-235
- 4 System Architectures for Nanophotonics: From Physical Principles to Functions in Systems. *Hyomen Kagaku*, **2009**, 30, 620-625
- 3 Probe-Free Nanophotonic Systems: Macro-Scale Applications Based on Nanophotonics **2011**, 59-92
- 2 Engineering of a Nanometric Optical System Based on Optical Near-Field Interactions for Macro-Scale Applications. *Nano-optics and Nanophotonics*, **2014**, 161-182 0
- 1 Photonic Computing Highlighting Ultimate Nature of Light: Decision Making by Photonics. *leice Ess Fundamentals Review*, **2022**, 15, 310-317 0.1