

Makoto Naruse

List of Publications by Year in descending order

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191
papers

2,709
citations

201385

27
h-index

243296

44
g-index

195
all docs

195
docs citations

195
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Roadmap on optical security. Journal of Optics (United Kingdom), 2016, 18, 083001.	1.0	338
2	Novel frontier of photonics for data processing—Photonic accelerator. APL Photonics, 2019, 4, 090901.	3.0	127
3	Ultrafast photonic reinforcement learning based on laser chaos. Scientific Reports, 2017, 7, 8772.	1.6	79
4	Demonstration of nanophotonic NOT gate using near-field optically coupled quantum dots. Applied Physics B: Lasers and Optics, 2006, 84, 243-246.	1.1	72
5	Nanophotonics: Application of Dressed Photons to Novel Photonic Devices and Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 1404-1417.	1.9	70
6	Single-photon decision maker. Scientific Reports, 2015, 5, 13253.	1.6	67
7	Amoeba-Inspired Nanoarchitectonic Computing: Solving Intractable Computational Problems Using Nanoscale Photoexcitation Transfer Dynamics. Langmuir, 2013, 29, 7557-7564.	1.6	59
8	Principles of Nanophotonics. , 0, , .		56
9	Two-dimensional array of room-temperature nanophotonic logic gates using InAs quantum dots in mesa structures. Applied Physics B: Lasers and Optics, 2011, 103, 537-546.	1.1	48
10	Scalable photonic reinforcement learning by time-division multiplexing of laser chaos. Scientific Reports, 2018, 8, 10890.	1.6	46
11	Hierarchy in optical near-fields and its application to memory retrieval. Optics Express, 2005, 13, 9265.	1.7	44
12	Decision Maker based on Nanoscale Photo-excitation Transfer. Scientific Reports, 2013, 3, 2370.	1.6	42
13	Flat-band light dynamics in Stub photonic lattices. Scientific Reports, 2017, 7, 15085.	1.6	41
14	Dynamic channel selection in wireless communications via a multi-armed bandit algorithm using laser chaos time series. Scientific Reports, 2020, 10, 1574.	1.6	39
15	Nanometric summation architecture based on optical near-field interaction between quantum dots. Optics Letters, 2005, 30, 201.	1.7	38
16	Design, Implementation and Characterization of a Quantum-Dot-Based Volumetric Display. Scientific Reports, 2015, 5, 8472.	1.6	38
17	Harnessing the Computational Power of Fluids for Optimization of Collective Decision Making. Philosophies, 2016, 1, 245-260.	0.4	35
18	Analysis and Synthesis of Hierarchy in Optical Near-Field Interactions at the Nanoscale Based on Angular Spectrum. Japanese Journal of Applied Physics, 2007, 46, 6095-6103.	0.8	33

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19	Structural dependency of optical excitation transfer via optical near-field interactions between semiconductor quantum dots. Applied Physics B: Lasers and Optics, 2010, 100, 181-187.	1.1	33
20	Decision making based on optical excitation transfer via near-field interactions between quantum dots. Journal of Applied Physics, 2014, 116, .	1.1	33
21	Laser network decision making by lag synchronization of chaos in a ring configuration. Optics Express, 2020, 28, 40112.	1.7	33
22	Realization of an atomically flat surface of diamond using dressed photon-phonon etching. Journal Physics D: Applied Physics, 2012, 45, 475302.	1.3	32
23	Information physics fundamentals of nanophotonics. Reports on Progress in Physics, 2013, 76, 056401.	8.1	32
24	Nanophotonic Computing Based on Optical Near-Field Interactions between Quantum Dots. IEICE Transactions on Electronics, 2005, E88-C, 1817-1823.	0.3	32
25	Amoeba-inspired nanoarchitectonic computing implemented using electrical Brownian ratchets. Nanotechnology, 2015, 26, 234001.	1.3	31
26	Spatiotemporal dynamics in optical energy transfer on the nanoscale and its application to constraint satisfaction problems. Physical Review B, 2012, 86, .	1.1	30
27	Tamper resistance in optical excitation transfer based on optical near-field interactions. Optics Letters, 2007, 32, 1761.	1.7	29
28	Hierarchical hologram based on optical near- and far-field responses. Optics Express, 2008, 16, 607.	1.7	29
29	Reconfigurable optical interconnections for parallel computing. Proceedings of the IEEE, 2000, 88, 829-837.	16.4	28
30	Quadrupole-dipole transform based on optical near-field interactions in engineered nanostructures. Optics Express, 2009, 17, 11113.	1.7	27
31	Lower bound of energy dissipation in optical excitation transfer via optical near-field interactions. Optics Express, 2010, 18, A544.	1.7	27
32	Optical interconnects based on optical far- and near-field interactions for high-density data broadcasting. Optics Express, 2006, 14, 306.	1.7	26
33	Decision making for the multi-armed bandit problem using lag synchronization of chaos in mutually coupled semiconductor lasers. Optics Express, 2019, 27, 26989.	1.7	25
34	Nanophotonic code embedded in embossed hologram for hierarchical information retrieval. Optics Express, 2010, 18, 7497.	1.7	23
35	Improving throughput using multi-armed bandit algorithm for wireless LANs. Nonlinear Theory and Its Applications IEICE, 2018, 9, 74-81.	0.4	23
36	Optimal mixture of randomly dispersed quantum dots for optical excitation transfer via optical near-field interactions. Physical Review B, 2009, 80, .	1.1	22

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37	Demonstration of 10 Gbit Ethernet/Optical-Packet Converter for IP Over Optical Packet Switching Network. <i>Journal of Lightwave Technology</i> , 2009, 27, 2379-2380.	2.7	22
38	Optical security based on near-field processes at the nanoscale. <i>Journal of Optics (United Kingdom)</i> , 2012, 14, 094002.	1.0	22
39	On-chip photonic decision maker using spontaneous mode switching in a ring laser. <i>Scientific Reports</i> , 2019, 9, 9429.	1.6	22
40	Optoelectronic parallel computing using optically interconnected pipelined processing arrays. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1999, 5, 250-260.	1.9	21
41	Challenges in realizing ultraflat materials surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 875-885.	1.5	21
42	Nano-artifact metrics based on random collapse of resist. <i>Scientific Reports</i> , 2014, 4, 6142.	1.6	21
43	Real-time active alignment demonstration for free-space optical interconnections. <i>IEEE Photonics Technology Letters</i> , 2001, 13, 1257-1259.	1.3	20
44	Single Photon in Hierarchical Architecture for Physical Decision Making: Photon Intelligence. <i>ACS Photonics</i> , 2016, 3, 2505-2514.	3.2	18
45	Self-organized near-field etching of the sidewalls of glass corrugations. <i>Applied Physics B: Lasers and Optics</i> , 2011, 103, 527-530.	1.1	17
46	Energy dissipation in energy transfer mediated by optical near-field interactions and their interfaces with optical far-fields. <i>Applied Physics Letters</i> , 2012, 100, 241102.	1.5	17
47	Amoeba-inspired computing architecture implemented using charge dynamics in parallel capacitance network. <i>Applied Physics Letters</i> , 2013, 103, 163703.	1.5	17
48	Entangled-photon decision maker. <i>Scientific Reports</i> , 2019, 9, 12229.	1.6	17
49	Optical Addressing of Multi-Colour Photochromic Material Mixture for Volumetric Display. <i>Scientific Reports</i> , 2016, 6, 31543.	1.6	16
50	Memory Effect on Adaptive Decision Making with a Chaotic Semiconductor Laser. <i>Complexity</i> , 2018, 2018, 1-8.	0.9	16
51	Design and Simulation of a Nanophotonic Traceable Memory Using Localized Energy Dissipation and Hierarchy of Optical Near-Field Interactions. <i>IEEE Nanotechnology Magazine</i> , 2008, 7, 14-19.	1.1	15
52	In situ real-time monitoring of changes in the surface roughness during nonadiabatic optical near-field etching. <i>Nanotechnology</i> , 2010, 21, 355303.	1.3	15
53	Autonomy in excitation transfer via optical near-field interactions and its implications for information networking. <i>Nano Communication Networks</i> , 2011, 2, 189-195.	1.6	15
54	Optical pulsation mechanism based on optical near-field interactions. <i>Applied Physics B: Lasers and Optics</i> , 2011, 102, 717-723.	1.1	15

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55	Nanophotonic Matching by Optical Near-Fields between Shape-Engineered Nanostructures. Applied Physics Express, 2008, 1, 112101.	1.1	14
56	Information theoretical analysis of hierarchical nano-optical systems in the subwavelength regime. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1772.	0.9	14
57	Repairing nanoscale scratched grooves on polycrystalline ceramics using optical near-field assisted sputtering. Applied Physics B: Lasers and Optics, 2010, 99, 75-78.	1.1	14
58	Decision Making Photonics: Solving Bandit Problems Using Photons. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10.	1.9	14
59	Spectral speckle-correlation imaging. Applied Optics, 2021, 60, 2388.	0.9	14
60	Ultrafast all-optical NOR gate based on intersubband and interband transitions. IEEE Photonics Technology Letters, 2005, 17, 1701-1703.	1.3	13
61	Generative adversarial network based on chaotic time series. Scientific Reports, 2019, 9, 12963.	1.6	13
62	Polarization in optical near and far fields and its relation to shape and layout of nanostructures. Journal of Applied Physics, 2008, 103, 113525.	1.1	12
63	Unidirectional light propagation through two-layer nanostructures based on optical near-field interactions. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2404.	0.9	12
64	Randomness in highly reflective silver nanoparticles and their localized optical fields. Scientific Reports, 2014, 4, 6077.	1.6	12
65	Conflict-free collective stochastic decision making by orbital angular momentum of photons through quantum interference. Scientific Reports, 2021, 11, 21117.	1.6	12
66	Generating small-scale structures from large-scale ones via optical near-field interactions. Optics Express, 2007, 15, 11790.	1.7	11
67	Chaotic oscillation and random-number generation based on nanoscale optical-energy transfer. Scientific Reports, 2014, 4, 6039.	1.6	11
68	Femtosecond timing measurement and control using ultrafast organic thin films. Applied Physics Letters, 2003, 83, 4869-4871.	1.5	10
69	Terabit all-optical logic based on ultrafast two-dimensional transmission gating. Optics Letters, 2004, 29, 608.	1.7	10
70	Analysis of surface roughness of optical elements planarized by nonadiabatic optical near-field etching. Journal of Applied Physics, 2009, 105, .	1.1	10
71	A stochastic modeling of morphology formation by optical near-field processes. Applied Physics B: Lasers and Optics, 2011, 105, 185-190.	1.1	10
72	Fixed-distance coupling and encapsulation of heterogeneous quantum dots using phonon-assisted photo-curing. Applied Physics B: Lasers and Optics, 2013, 110, 39-45.	1.1	10

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73	Entangled N-photon states for fair and optimal social decision making. Scientific Reports, 2020, 10, 20420.	1.6	10
74	Generation of Schubert polynomial series via nanometre-scale photoisomerization in photochromic single crystal and double-probe optical near-field measurements. Scientific Reports, 2020, 10, 2710.	1.6	10
75	All-Optical Multiple-Label-Processing based Optical Packet Switch Prototype and Novel 10Gb Ethernet / 80 (8Å; Å– 10) Gbps-Wide Colored Optical Packet Converter with 8-Channel Array Burst-Mode Packet Transceiver. , 2007, , .		9
76	Energy Transfer in Multi-Stacked InAs Quantum Dots. Japanese Journal of Applied Physics, 2011, 50, 04DH05.	0.8	9
77	Experimental demonstration and stochastic modeling of autonomous formation of nanophotonic droplets. Applied Physics B: Lasers and Optics, 2013, 112, 587-592.	1.1	9
78	Optical nano artifact metrics using silicon random nanostructures. Scientific Reports, 2016, 6, 32438.	1.6	9
79	Category Theoretic Analysis of Photon-Based Decision Making. International Journal of Information Technology and Decision Making, 2018, 17, 1305-1333.	2.3	9
80	Nano-optical functionality based on local photoisomerization in photochromic single crystal. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	9
81	Analysis on Effectiveness of Surrogate Data-Based Laser Chaos Decision Maker. Complexity, 2021, 2021, 1-9.	0.9	9
82	Energy Transfer in Multi-Stacked InAs Quantum Dots. Japanese Journal of Applied Physics, 2011, 50, 04DH05.	0.8	9
83	User pairing using laser chaos decision maker for NOMA systems. Nonlinear Theory and Its Applications IEICE, 2022, 13, 72-83.	0.4	9
84	Multistage Network With Globally Controlled Switching Stages and Its Implementation Using Optical Multi-Interconnection Modules. Journal of Lightwave Technology, 2004, 22, 315-328.	2.7	8
85	Demonstration of modulatable optical near-field interactions between dispersed resonant quantum dots. Optics Express, 2011, 19, 18260.	1.7	8
86	Skew Dependence of Nanophotonic Devices Based on Optical Near-Field Interactions. ACM Journal on Emerging Technologies in Computing Systems, 2012, 8, 1-12.	1.8	8
87	Stochastic processes in light-assisted nanoparticle formation. Applied Physics Letters, 2012, 100, 193106.	1.5	8
88	Random walk with chaotically driven bias. Scientific Reports, 2016, 6, 38634.	1.6	8
89	Nanometre-scale pattern formation on the surface of a photochromic crystal by optical near-field induced photoisomerization. Scientific Reports, 2018, 8, 14468.	1.6	8
90	Analysis of Soft Robotics Based on the Concept of Category of Mobility. Complexity, 2019, 2019, 1-12.	0.9	8

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91	Hierarchy in Optical Near-fields by Nano-scale Shape Engineering and its Application to Traceable Memory. Applied Physics Express, 2008, 1, 062004.	1.1	7
92	Efficient optical excitation transfer in layered quantum dot nanostructures networked via optical near-field interactions. Physical Review B, 2010, 82, .	1.1	7
93	Nanophotonic droplet: a nanometric optical device consisting of size- and number-selective coupled quantum dots. Applied Physics B: Lasers and Optics, 2013, 110, 293-297.	1.1	7
94	Nanophotonics for Low-Power Switches. , 2013, , 205-241.		7
95	Inkjet printing-based volumetric display projecting multiple full-colour 2D patterns. Scientific Reports, 2017, 7, 46511.	1.6	7
96	Adaptive model selection in photonic reservoir computing by reinforcement learning. Scientific Reports, 2020, 10, 10062.	1.6	7
97	Arm order recognition in multi-armed bandit problem with laser chaos time series. Scientific Reports, 2021, 11, 4459.	1.6	7
98	Decision making for large-scale multi-armed bandit problems using bias control of chaotic temporal waveforms in semiconductor lasers. Scientific Reports, 2022, 12, 8073.	1.6	7
99	Analysis and characterization of alignment for free-space optical interconnects based on singular-value decomposition. Applied Optics, 2000, 39, 293.	2.1	6
100	Unveiling the mechanisms of dressed-photonâ€“phonon etching based on hierarchical surface roughness measure. Applied Physics Letters, 2013, 102, 071603.	1.5	6
101	Near-field surface plasmon field enhancement induced by rippled surfaces. Beilstein Journal of Nanotechnology, 2017, 8, 956-967.	1.5	6
102	Reservoir computing and decision making using laser dynamics for photonic accelerator. Japanese Journal of Applied Physics, 2020, 59, 040601.	0.8	6
103	Compressive propagation with coherence. Optics Letters, 2022, 47, 613.	1.7	6
104	Hierarchy in optical near-fields based on compositions of Nanomaterials. Applied Physics B: Lasers and Optics, 2009, 96, 1-4.	1.1	5
105	Optical near-fieldâ€“mediated polarization asymmetry induced by two-layer nanostructures. Optics Express, 2013, 21, 21857.	1.7	5
106	Nanoscale Photonic Network for Solution Searching and Decision Making Problems. IEICE Transactions on Communications, 2013, E96.B, 2724-2732.	0.4	5
107	High-speed Optimization of User Pairing in NOMA System Using Laser Chaos Based MAB Algorithm. , 2021, , .		5
108	Dynamic Channel Bonding Using Laser Chaos Decision Maker in WLANs. , 2021, , .		5

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109	Fast dynamics of low-frequency fluctuations in a quantum-dot laser with optical feedback. <i>Optics Express</i> , 2021, 29, 17962.	1.7	5
110	Simple integration technique to realize parallel optical interconnects: implementation of a pluggable two-dimensional optical data link. <i>Applied Optics</i> , 2002, 41, 5538.	2.1	4
111	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> , 2010, 98, 685-689.	1.1	4
112	Analysis of optical near-field energy transfer by stochastic model unifying architectural dependencies. <i>Journal of Applied Physics</i> , 2014, 115, 154306.	1.1	4
113	Nanoscale hierarchical optical interactions for secure information. <i>Nanophotonics</i> , 2016, 6, 613-622.	2.9	4
114	A note on the roles of quantum and mechanical models in social biophysics. <i>Progress in Biophysics and Molecular Biology</i> , 2017, 130, 103-105.	1.4	4
115	A New Kind of Aesthetics – The Mathematical Structure of the Aesthetic. <i>Philosophies</i> , 2017, 2, 14.	0.4	4
116	Lotka’s Volterra Competition Mechanism Embedded in a Decision-Making Method. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 014801.	0.7	4
117	Entangled and correlated photon mixed strategy for social decision making. <i>Scientific Reports</i> , 2021, 11, 4832.	1.6	4
118	Dynamic channel bonding in WLANs by hierarchical laser chaos decision maker. <i>Nonlinear Theory and Its Applications IEICE</i> , 2022, 13, 84-100.	0.4	4
119	Direct observation of optical excitation transfer based on resonant optical near-field interaction. <i>Applied Physics B: Lasers and Optics</i> , 2012, 107, 257-262.	1.1	3
120	Non-scanning optical near-field microscopy for nanophotonic security. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 121, 1383-1387.	1.1	3
121	Stochastic model showing a transition to self-controlled particle-deposition state induced by optical near-fields. <i>Applied Physics B: Lasers and Optics</i> , 2015, 120, 247-254.	1.1	3
122	Eigenanalysis of morphological diversity in silicon random nanostructures formed via resist collapse. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 462, 883-888.	1.2	3
123	Why is the environment important for decision making? Local reservoir model for choice-based learning. <i>PLoS ONE</i> , 2018, 13, e0205161.	1.1	3
124	Parallel Retrieval of Nanometer-Scale Light-Matter Interactions for Nanophotonic Systems. <i>Proceedings in Information and Communications Technology</i> , 2010, , 298-307.	0.2	3
125	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> , 2022, 13, 112-122.	0.4	3
126	Double-probe atomic force microscopy for observing spatiotemporal dynamics in a photochromic thin film. <i>Applied Physics Letters</i> , 2022, 120, 071105.	1.5	3

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127	BER Minimization by User Pairing in Downlink NOMA Using Laser Chaos Decision-Maker. Electronics (Switzerland), 2022, 11, 1452.	1.8	3
128	Optical interconnects using optical far- and near-field interactions for high-density data broadcasting. , 2005, , .		2
129	Analysis of modulation of optical near-fields by positioning nanoparticles based on angular spectrum representation. , 2006, , .		2
130	Novel Layer-3 IP Packet Switching between 10 Gbps Ethernet and 80 Gbps Optical Packet-Switched Networks. , 2007, , .		2
131	Scale-dependent Optical Near-fields in InAs Quantum Dots and Their Application to Non-pixelated Memory Retrieval. Applied Physics Express, 0, 1, 072101.	1.1	2
132	Demonstration of Controlling the Spatiotemporal Dynamics of Optical Near-Field Excitation Transfer in Y-Junction Structure Consisting of Randomly Distributed Quantum Dots. Advances in Optical Technologies, 2014, 2014, 1-8.	0.8	2
133	Local circular polarizations in nanostructures induced by linear polarization via optical near-fields. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1797.	0.9	2
134	Category Theory Approach to Solution Searching Based on Photoexcitation Transfer Dynamics. Philosophies, 2017, 2, 16.	0.4	2
135	Unidirectional light transmission by two-layer nanostructures interacting via optical near-fields. Applied Physics Express, 2019, 12, 022007.	1.1	2
136	Boundary formation in photochromic diarylethene single crystals and its catastrophe theory modeling. Applied Physics Express, 2021, 14, 075003.	1.1	2
137	Delay-Bounded Wireless Network Based on Precise Time Synchronization Using Wireless Two-Way Interferometry. IEEE Access, 2021, 9, 85084-85100.	2.6	2
138	Nanointelligence: Information Physics Fundamentals for Nanophotonics. Nano-optics and Nanophotonics, 2014, , 1-39.	0.2	2
139	Photonic decision making for solving competitive multi-armed bandit problem using semiconductor laser networks. Nonlinear Theory and Its Applications IEICE, 2022, 13, 582-597.	0.4	2
140	Design of a pipelined optoelectronic processor. , 1998, 3490, 302.		1
141	<title>Parallel confocal laser microscope system using smart pixel arrays</title>. , 2000, , .		1
142	<title>Reconfigurable free-space optical interconnection module for pipelined optoelectronic parallel processing</title>. , 2001, , .		1
143	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. Beilstein Journal of Nanotechnology, 2014, 5, 1334-1340.	1.5	1
144	Percolation of optical excitation mediated by near-field interactions. Physica A: Statistical Mechanics and Its Applications, 2017, 471, 162-168.	1.2	1

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145	Implementation of pulse timing discriminator functionality into a GeSbTe/GeCuTe double layer structure. Optics Express, 2017, 25, 26825.	1.7	1
146	Low latency information transfer based on precision time synchronization via wireless interferometry. Nonlinear Theory and Its Applications IEICE, 2021, 12, 225-235.	0.4	1
147	Analysis of Hierarchy in Optical Near-Fields based on Angular Spectrum Representation. , 2006, , .		1
148	Efficient Pairing in Unknown Environments: Minimal Observations and TSP-Based Optimization. IEEE Access, 2022, 10, 57630-57640.	2.6	1
149	<title>Optically interconnected pipelined parallel processing system: OCULAR-II</title> . , 2000, 4089, 440.		0
150	<title>Image database construction and search algorithm for smart pixel optoelectronic systems</title> . , 2000, , .		0
151	Parallel Confocal Microscope using Vertical-Cavity Surface Emitting Laser Array. Microscopy and Microanalysis, 2001, 7, 1004-1005.	0.2	0
152	From optical near-field interaction to nanophotonic information systems. , 2005, , .		0
153	High-bandwidth measurement of femtosecond optical pulse timing based on two-dimensional transmission gating and parallel processing. Optics Express, 2005, 13, 860.	1.7	0
154	Dynamical optical near-field of energy transfers among quantum dots for a nanometric optical buffering. , 2006, , .		0
155	Plasmonic circuits for nanophotonic devices. , 2006, 6323, 79.		0
156	Analysis of Hierarchical Interconnects Using Optical Near-Fields Based on Angular Spectrum. , 2007, , .		0
157	Hierarchy in Optical Near-Fields by Nano-Scale Shape Engineering and its Application to Traceable Memory. , 2007, , .		0
158	Guest Editorial: Nanophotonics in Japan. Journal of Nanophotonics, 2007, 1, 011599.	0.4	0
159	Hierarchy and energy dissipation in optical near-fields and their system applications. Proceedings of SPIE, 2007, , .	0.8	0
160	Unidirectional signal transfer in quantum-dot systems via optical near-field interactions. , 2008, , .		0
161	Hierarchical architectures based on optical near-field interactions. , 2008, , .		0
162	Scale-dependent optical near-fields in InAs quantum dots and their application to non-pixelated memory architecture. , 2008, , .		0

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163	System architectures for nanophotonics for information and communications applications. , 2009, , .		0
164	Efficient and Robust Energy Transfer Network in Quantum Dot Mixtures via Optical Near-Fields Interactions. , 2010, , .		0
165	Minimum energy dissipation in signal transfer via optical near-field interactions in the subwavelength regime. , 2010, , .		0
166	Optical pulsation based on near-field interactions at the nanoscale by continuous-wave light excitation. , 2011, , .		0
167	Autonomous excitation transfer in quantum dot mixtures via network of optical near-field interactions at the nanoscale. , 2011, , .		0
168	Nanophotonic hierarchical hologram: hierarchical information processing and nanometric data retrieval based on nanophotonics. , 2011, , .		0
169	Demonstration of Modulatable Nanophotonics based on modulatable optical near-field interactions between dispersed quantum dots. , 2011, , .		0
170	Probe-Free Nanophotonic Systems: Macroscale Applications Based on Nanophotonics. , 2013, , 909-942.		0
171	Nanophotonic Systems Based on Localized and Hierarchical Optical Near-Field Processes. , 2013, , 875-907.		0
172	A Nanophotonic Computing Paradigm: Problem-Solving and Decision-Making Systems Using Spatiotemporal Photoexcitation Transfer Dynamics. Nano-optics and Nanophotonics, 2014, , 223-244.	0.2	0
173	Physarum-Inspired Electronic and Nanoelectronic Computing Systems. Emergence, Complexity and Computation, 2016, , 109-132.	0.2	0
174	Experimental demonstration of random walk by probability chaos using single photons. Applied Physics Express, 2020, 13, 042006.	1.1	0
175	Nanophotonic Memory-Based Computation Using Optical Near-Field Interactions. , 2005, , .		0
176	Signal processing using optical near-field interactions. The Review of Laser Engineering, 2006, 34, 234-235.	0.0	0
177	System Architectures for Nanophotonics: From Physical Principles to Functions in Systems. Hyomen Kagaku, 2009, 30, 620-625.	0.0	0
178	Probe-Free Nanophotonic Systems: Macro-Scale Applications Based on Nanophotonics. , 2011, , 59-92.		0
179	Efficiency of Implicit Symplectic Finite-Difference Time-Domain Method for Near-Field Optics. , 2012, , .		0
180	Basics of optical processing system based on nanophotonic droplets. , 2013, , .		0

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181	Engineering of a Nanometric Optical System Based on Optical Near-Field Interactions for Macro-Scale Applications. Nano-optics and Nanophotonics, 2014, , 161-182.	0.2	0
182	Optical Near-field Processes and Their Applications to Intelligence and Volumetric Display. , 2015, , .		0
183	Experimental investigation of nonlinear dynamics and bifurcation in a quantum-dot laser with optical feedback. , 2019, , .		0
184	Decision making using lag synchronization of chaos in mutually-coupled semiconductor lasers. , 2019, , .		0
185	Experimental demonstration of adaptive model selection based on reinforcement learning in photonic reservoir computing. Nonlinear Theory and Its Applications IEICE, 2022, 13, 123-138.	0.4	0
186	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.	0.4	0
187	Multichannel random signal generation in optical fiber-based ring laser with quantum-dot semiconductor optical amplifier. Japanese Journal of Applied Physics, 0, , .	0.8	0
188	BER Minimization by User Pairing in Downlink NOMA Using Laser Chaos-Based MAB Algorithm. , 2022, , .		0
189	Photonic Computing Highlighting Ultimate Nature of Light: Decision Making by Photonics. Ieice Ess Fundamentals Review, 2022, 15, 310-317.	0.1	0
190	Parallel bandit architecture based on laser chaos for reinforcement learning. Journal of Physics Communications, 0, , .	0.5	0
191	Incoherent optical phase conjugation. Applied Optics, 0, , .	0.9	0