

Makoto Naruse

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.

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 | Experimental demonstration of adaptive model selection based on reinforcement learning in photonic reservoir computing. <i>Nonlinear Theory and Its Applications IEICE</i> , 2022 , 13, 123-138 | 0.6 | |
| 156 | User pairing using laser chaos decision maker for NOMA systems. <i>Nonlinear Theory and Its Applications IEICE</i> , 2022 , 13, 72-83 | 0.6 | 4 |
| 155 | Experimental demonstration of channel order recognition in wireless communications by laser chaos time series and confidence intervals. <i>Nonlinear Theory and Its Applications IEICE</i> , 2022 , 13, 101-111 ^{0.6} | 0.6 | |
| 154 | Dynamic channel bonding in WLANs by hierarchical laser chaos decision maker. <i>Nonlinear Theory and Its Applications IEICE</i> , 2022 , 13, 84-100 | 0.6 | 1 |
| 153 | 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 | 0.6 | 2 |
| 152 | Compressive propagation with coherence.. <i>Optics Letters</i> , 2022 , 47, 613-616 | 3 | 0 |
| 151 | Double-probe atomic force microscopy for observing spatiotemporal dynamics in a photochromic thin film. <i>Applied Physics Letters</i> , 2022 , 120, 071105 | 3.4 | 2 |
| 150 | Photonic Computing Highlighting Ultimate Nature of Light: Decision Making by Photonics. <i>leice Ess Fundamentals Review</i> , 2022 , 15, 310-317 | 0.1 | |
| 149 | BER Minimization by User Pairing in Downlink NOMA Using Laser Chaos Decision-Maker. <i>Electronics (Switzerland)</i> , 2022 , 11, 1452 | 2.6 | 0 |
| 148 | Decision making for large-scale multi-armed bandit problems using bias control of chaotic temporal waveforms in semiconductor lasers.. <i>Scientific Reports</i> , 2022 , 12, 8073 | 4.9 | 1 |
| 147 | Efficient Pairing in Unknown Environments: Minimal Observations and TSP-based Optimization. <i>IEEE Access</i> , 2022 , 1-1 | 3.5 | 0 |
| 146 | Conflict-free collective stochastic decision making by orbital angular momentum of photons through quantum interference. <i>Scientific Reports</i> , 2021 , 11, 21117 | 4.9 | 3 |
| 145 | Entangled and correlated photon mixed strategy for social decision making. <i>Scientific Reports</i> , 2021 , 11, 4832 | 4.9 | 2 |
| 144 | Spectral speckle-correlation imaging. <i>Applied Optics</i> , 2021 , 60, 2388-2392 | 1.7 | 4 |
| 143 | High-speed Optimization of User Pairing in NOMA System Using Laser Chaos Based MAB Algorithm 2021 , | | 2 |
| 142 | Dynamic Channel Bonding Using Laser Chaos Decision Maker in WLANs 2021 , | | 3 |
| 141 | Fast dynamics of low-frequency fluctuations in a quantum-dot laser with optical feedback. <i>Optics Express</i> , 2021 , 29, 17962-17975 | 3.3 | 1 |

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| 140 | Boundary formation in photochromic diarylethene single crystals and its catastrophe theory modeling. <i>Applied Physics Express</i> , 2021 , 14, 075003 | 2.4 | 1 |
| 139 | Analysis on Effectiveness of Surrogate Data-Based Laser Chaos Decision Maker. <i>Complexity</i> , 2021 , 2021, 1-9 | 1.6 | 5 |
| 138 | Arm order recognition in multi-armed bandit problem with laser chaos time series. <i>Scientific Reports</i> , 2021 , 11, 4459 | 4.9 | 4 |
| 137 | Low latency information transfer based on precision time synchronization via wireless interferometry. <i>Nonlinear Theory and Its Applications IEICE</i> , 2021 , 12, 225-235 | 0.6 | 1 |
| 136 | Delay-Bounded Wireless Network Based on Precise Time Synchronization Using Wireless Two-Way Interferometry. <i>IEEE Access</i> , 2021 , 9, 85084-85100 | 3.5 | 1 |
| 135 | Experimental demonstration of random walk by probability chaos using single photons. <i>Applied Physics Express</i> , 2020 , 13, 042006 | 2.4 | |
| 134 | Reservoir computing and decision making using laser dynamics for photonic accelerator. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 040601 | 1.4 | 3 |
| 133 | Adaptive model selection in photonic reservoir computing by reinforcement learning. <i>Scientific Reports</i> , 2020 , 10, 10062 | 4.9 | 2 |
| 132 | Generation of Schubert polynomial series via nanometre-scale photoisomerization in photochromic single crystal and double-probe optical near-field measurements. <i>Scientific Reports</i> , 2020 , 10, 2710 | 4.9 | 5 |
| 131 | Dynamic channel selection in wireless communications via a multi-armed bandit algorithm using laser chaos time series. <i>Scientific Reports</i> , 2020 , 10, 1574 | 4.9 | 23 |
| 130 | Laser network decision making by lag synchronization of chaos in a ring configuration. <i>Optics Express</i> , 2020 , 28, 40112-40130 | 3.3 | 8 |
| 129 | Lotka-Volterra Competition Mechanism Embedded in a Decision-Making Method. <i>Journal of the Physical Society of Japan</i> , 2020 , 89, 014801 | 1.5 | 3 |
| 128 | Entangled N-photon states for fair and optimal social decision making. <i>Scientific Reports</i> , 2020 , 10, 20420 | 4.9 | 4 |
| 127 | Decision Making Photonics: Solving Bandit Problems Using Photons. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020 , 26, 1-10 | 3.8 | 7 |
| 126 | Entangled-photon decision maker. <i>Scientific Reports</i> , 2019 , 9, 12229 | 4.9 | 11 |
| 125 | Generative adversarial network based on chaotic time series. <i>Scientific Reports</i> , 2019 , 9, 12963 | 4.9 | 9 |
| 124 | Novel frontier of photonics for data processing in photonic accelerator. <i>APL Photonics</i> , 2019 , 4, 090901 | 5.2 | 52 |
| 123 | Analysis of Soft Robotics Based on the Concept of Category of Mobility. <i>Complexity</i> , 2019 , 2019, 1-12 | 1.6 | 7 |

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|-----|---|-----|----|
| 122 | Unidirectional light transmission by two-layer nanostructures interacting via optical near-fields. <i>Applied Physics Express</i> , 2019 , 12, 022007 | 2.4 | 2 |
| 121 | On-chip photonic decision maker using spontaneous mode switching in a ring laser. <i>Scientific Reports</i> , 2019 , 9, 9429 | 4.9 | 13 |
| 120 | Decision making for the multi-armed bandit problem using lag synchronization of chaos in mutually coupled semiconductor lasers. <i>Optics Express</i> , 2019 , 27, 26989-27008 | 3.3 | 14 |
| 119 | Category Theoretic Analysis of Photon-Based Decision Making. <i>International Journal of Information Technology and Decision Making</i> , 2018 , 17, 1305-1333 | 2.8 | 7 |
| 118 | Memory Effect on Adaptive Decision Making with a Chaotic Semiconductor Laser. <i>Complexity</i> , 2018 , 2018, 1-8 | 1.6 | 13 |
| 117 | Nano-optical functionality based on local photoisomerization in photochromic single crystal. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1 | 2.6 | 7 |
| 116 | Why is the environment important for decision making? Local reservoir model for choice-based learning. <i>PLoS ONE</i> , 2018 , 13, e0205161 | 3.7 | 2 |
| 115 | Nanometre-scale pattern formation on the surface of a photochromic crystal by optical near-field induced photoisomerization. <i>Scientific Reports</i> , 2018 , 8, 14468 | 4.9 | 5 |
| 114 | Scalable photonic reinforcement learning by time-division multiplexing of laser chaos. <i>Scientific Reports</i> , 2018 , 8, 10890 | 4.9 | 32 |
| 113 | Improving throughput using multi-armed bandit algorithm for wireless LANs. <i>Nonlinear Theory and Its Applications IEICE</i> , 2018 , 9, 74-81 | 0.6 | 16 |
| 112 | Inkjet printing-based volumetric display projecting multiple full-colour 2D patterns. <i>Scientific Reports</i> , 2017 , 7, 46511 | 4.9 | 4 |
| 111 | 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 | 4.7 | 4 |
| 110 | Percolation of optical excitation mediated by near-field interactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 471, 162-168 | 3.3 | 1 |
| 109 | Near-field surface plasmon field enhancement induced by rippled surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 956-967 | 3 | 5 |
| 108 | Ultrafast photonic reinforcement learning based on laser chaos. <i>Scientific Reports</i> , 2017 , 7, 8772 | 4.9 | 51 |
| 107 | Flat-band light dynamics in Stub photonic lattices. <i>Scientific Reports</i> , 2017 , 7, 15085 | 4.9 | 30 |
| 106 | Implementation of pulse timing discriminator functionality into a GeSbTe/GeCuTe double layer structure. <i>Optics Express</i> , 2017 , 25, 26825-26831 | 3.3 | 1 |
| 105 | A New Kind of Aesthetics The Mathematical Structure of the Aesthetic. <i>Philosophies</i> , 2017 , 2, 14 | 0.7 | 3 |

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| 104 | Category Theory Approach to Solution Searching Based on Photoexcitation Transfer Dynamics. <i>Philosophies</i> , 2017 , 2, 16 | 0.7 | 2 |
| 103 | Roadmap on optical security. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 083001 | 1.7 | 243 |
| 102 | Optical Addressing of Multi-Colour Photochromic Material Mixture for Volumetric Display. <i>Scientific Reports</i> , 2016 , 6, 31543 | 4.9 | 9 |
| 101 | Nanoscale hierarchical optical interactions for secure information. <i>Nanophotonics</i> , 2016 , 6, 613-622 | 6.3 | 3 |
| 100 | Optical nano artifact metrics using silicon random nanostructures. <i>Scientific Reports</i> , 2016 , 6, 32438 | 4.9 | 7 |
| 99 | Physarum-Inspired Electronic and Nanoelectronic Computing Systems. <i>Emergence, Complexity and Computation</i> , 2016 , 109-132 | 0.1 | |
| 98 | Harnessing the Computational Power of Fluids for Optimization of Collective Decision Making. <i>Philosophies</i> , 2016 , 1, 245-260 | 0.7 | 20 |
| 97 | Single Photon in Hierarchical Architecture for Physical Decision Making: Photon Intelligence. <i>ACS Photonics</i> , 2016 , 3, 2505-2514 | 6.3 | 14 |
| 96 | Random walk with chaotically driven bias. <i>Scientific Reports</i> , 2016 , 6, 38634 | 4.9 | 5 |
| 95 | 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 | 3.3 | 3 |
| 94 | 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 | 1.9 | 2 |
| 93 | 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> , 2015 , 32, 1797 | 1.7 | 2 |
| 92 | Single-photon decision maker. <i>Scientific Reports</i> , 2015 , 5, 13253 | 4.9 | 54 |
| 91 | Design, implementation and characterization of a quantum-dot-based volumetric display. <i>Scientific Reports</i> , 2015 , 5, 8472 | 4.9 | 28 |
| 90 | Amoeba-inspired nanoarchitectonic computing implemented using electrical Brownian ratchets. <i>Nanotechnology</i> , 2015 , 26, 234001 | 3.4 | 23 |
| 89 | Non-scanning optical near-field microscopy for nanophotonic security. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 121, 1383-1387 | 2.6 | 2 |
| 88 | Randomness in highly reflective silver nanoparticles and their localized optical fields. <i>Scientific Reports</i> , 2014 , 4, 6077 | 4.9 | 7 |
| 87 | Chaotic oscillation and random-number generation based on nanoscale optical-energy transfer. <i>Scientific Reports</i> , 2014 , 4, 6039 | 4.9 | 9 |

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| 86 | Nano-artifact metrics based on random collapse of resist. <i>Scientific Reports</i> , 2014 , 4, 6142 | 4.9 | 15 |
| 85 | 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> , 2014 , 5, 1334-40 | 3 | 1 |
| 84 | 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> , 2014 , 2014, 1-8 | | 2 |
| 83 | 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> , 2014 , 31, 2404 | 1.7 | 11 |
| 82 | Decision making based on optical excitation transfer via near-field interactions between quantum dots. <i>Journal of Applied Physics</i> , 2014 , 116, 154303 | 2.5 | 30 |
| 81 | Analysis of optical near-field energy transfer by stochastic model unifying architectural dependencies. <i>Journal of Applied Physics</i> , 2014 , 115, 154306 | 2.5 | 3 |
| 80 | A Nanophotonic Computing Paradigm: Problem-Solving and Decision-Making Systems Using Spatiotemporal Photoexcitation Transfer Dynamics. <i>Nano-optics and Nanophotonics</i> , 2014 , 223-244 | 0 | |
| 79 | Nanointelligence: Information Physics Fundamentals for Nanophotonics. <i>Nano-optics and Nanophotonics</i> , 2014 , 1-39 | 0 | 1 |
| 78 | Engineering of a Nanometric Optical System Based on Optical Near-Field Interactions for Macro-Scale Applications. <i>Nano-optics and Nanophotonics</i> , 2014 , 161-182 | 0 | |
| 77 | Experimental demonstration and stochastic modeling of autonomous formation of nanophotonic droplets. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 112, 587-592 | 1.9 | 8 |
| 76 | Nanophotonic droplet: a nanometric optical device consisting of size- and number-selective coupled quantum dots. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 110, 293-297 | 1.9 | 7 |
| 75 | Fixed-distance coupling and encapsulation of heterogeneous quantum dots using phonon-assisted photo-curing. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 110, 39-45 | 1.9 | 10 |
| 74 | Nanophotonics for Low-Power Switches 2013 , 205-241 | | 3 |
| 73 | Probe-Free Nanophotonic Systems: Macroscale Applications Based on Nanophotonics 2013 , 909-942 | | |
| 72 | Nanophotonic Systems Based on Localized and Hierarchical Optical Near-Field Processes 2013 , 875-907 | | |
| 71 | Information physics fundamentals of nanophotonics. <i>Reports on Progress in Physics</i> , 2013 , 76, 056401 | 14.4 | 27 |
| 70 | Unveiling the mechanisms of dressed-photon-phonon etching based on hierarchical surface roughness measure. <i>Applied Physics Letters</i> , 2013 , 102, 071603 | 3.4 | 6 |
| 69 | Amoeba-inspired nanoarchitectonic computing: solving intractable computational problems using nanoscale photoexcitation transfer dynamics. <i>Langmuir</i> , 2013 , 29, 7557-64 | 4 | 48 |

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| 68 | Optical near-field-mediated polarization asymmetry induced by two-layer nanostructures. <i>Optics Express</i> , 2013 , 21, 21857-70 | 3.3 | 5 |
| 67 | Amoeba-inspired computing architecture implemented using charge dynamics in parallel capacitance network. <i>Applied Physics Letters</i> , 2013 , 103, 163703 | 3.4 | 15 |
| 66 | Nanoscale Photonic Network for Solution Searching and Decision Making Problems. <i>IEICE Transactions on Communications</i> , 2013 , E96.B, 2724-2732 | 0.5 | 5 |
| 65 | Decision maker based on nanoscale photo-excitation transfer. <i>Scientific Reports</i> , 2013 , 3, 2370 | 4.9 | 35 |
| 64 | Challenges in realizing ultraflat materials surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 875-85 | 3 | 21 |
| 63 | Realization of an atomically flat surface of diamond using dressed photon-phonon etching. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 475302 | 3 | 32 |
| 62 | 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 | 1.9 | 3 |
| 61 | Skew Dependence of Nanophotonic Devices Based on Optical Near-Field Interactions. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2012 , 8, 1-12 | 1.7 | 8 |
| 60 | Stochastic processes in light-assisted nanoparticle formation. <i>Applied Physics Letters</i> , 2012 , 100, 193106 | 3.4 | 7 |
| 59 | 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 | 3.4 | 14 |
| 58 | Spatiotemporal dynamics in optical energy transfer on the nanoscale and its application to constraint satisfaction problems. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 26 |
| 57 | Optical security based on near-field processes at the nanoscale. <i>Journal of Optics (United Kingdom)</i> , 2012 , 14, 094002 | 1.7 | 19 |
| 56 | Autonomy in excitation transfer via optical near-field interactions and its implications for information networking. <i>Nano Communication Networks</i> , 2011 , 2, 189-195 | 2.9 | 14 |
| 55 | Demonstration of modulatable optical near-field interactions between dispersed resonant quantum dots. <i>Optics Express</i> , 2011 , 19, 18260-71 | 3.3 | 7 |
| 54 | Optical pulsation mechanism based on optical near-field interactions. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 102, 717-723 | 1.9 | 13 |
| 53 | Two-dimensional array of room-temperature nanophotonic logic gates using InAs quantum dots in mesa structures. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 103, 537-546 | 1.9 | 43 |
| 52 | Self-organized near-field etching of the sidewalls of glass corrugations. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 103, 527-530 | 1.9 | 17 |
| 51 | A stochastic modeling of morphology formation by optical near-field processes. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 105, 185-190 | 1.9 | 10 |

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| 50 | Energy Transfer in Multi-Stacked InAs Quantum Dots. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 04DH05 | 6 |
| 49 | Energy Transfer in Multi-Stacked InAs Quantum Dots. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 04DH05 | 8 |
| 48 | Probe-Free Nanophotonic Systems: Macro-Scale Applications Based on Nanophotonics 2011 , 59-92 | |
| 47 | Efficient optical excitation transfer in layered quantum dot nanostructures networked via optical near-field interactions. <i>Physical Review B</i> , 2010 , 82, | 3-3 7 |
| 46 | In situ real-time monitoring of changes in the surface roughness during nonadiabatic optical near-field etching. <i>Nanotechnology</i> , 2010 , 21, 355303 | 3-4 15 |
| 45 | Nanophotonic code embedded in embossed hologram for hierarchical information retrieval. <i>Optics Express</i> , 2010 , 18, 7497-505 | 3-3 20 |
| 44 | Lower bound of energy dissipation in optical excitation transfer via optical near-field interactions. <i>Optics Express</i> , 2010 , 18 Suppl 4, A544-53 | 3-3 26 |
| 43 | 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 | 1-9 4 |
| 42 | Repairing nanoscale scratched grooves on polycrystalline ceramics using optical near-field assisted sputtering. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 99, 75-78 | 1-9 14 |
| 41 | Structural dependency of optical excitation transfer via optical near-field interactions between semiconductor quantum dots. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 100, 181-187 | 1-9 29 |
| 40 | Parallel Retrieval of Nanometer-Scale Light-Matter Interactions for Nanophotonic Systems. <i>Proceedings in Information and Communications Technology</i> , 2010 , 298-307 | 2 |
| 39 | Optimal mixture of randomly dispersed quantum dots for optical excitation transfer via optical near-field interactions. <i>Physical Review B</i> , 2009 , 80, | 3-3 18 |
| 38 | Analysis of surface roughness of optical elements planarized by nonadiabatic optical near-field etching. <i>Journal of Applied Physics</i> , 2009 , 105, 063516 | 2-5 9 |
| 37 | Hierarchy in optical near-fields based on compositions of nanomaterials. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 96, 1-4 | 1-9 4 |
| 36 | Information theoretical analysis of hierarchical nano-optical systems in the subwavelength regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 1772 | 1-7 12 |
| 35 | Quadrupole-dipole transform based on optical near-field interactions in engineered nanostructures. <i>Optics Express</i> , 2009 , 17, 11113-21 | 3-3 25 |
| 34 | 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 | 4 11 |
| 33 | System Architectures for Nanophotonics: From Physical Principles to Functions in Systems. <i>Hyomen Kagaku</i> , 2009 , 30, 620-625 | |

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| 32 | Nanophotonics: Application of Dressed Photons to Novel Photonic Devices and Systems. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008 , 14, 1404-1417 | 3.8 | 62 |
| 31 | Hierarchical hologram based on optical near- and far-field responses. <i>Optics Express</i> , 2008 , 16, 607-12 | 3.3 | 24 |
| 30 | 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 | 2.6 | 14 |
| 29 | Scale-dependent Optical Near-fields in InAs Quantum Dots and Their Application to Non-pixelated Memory Retrieval. <i>Applied Physics Express</i> , 2008 , 1, 072101 | 2.4 | 1 |
| 28 | Polarization in optical near and far fields and its relation to shape and layout of nanostructures. <i>Journal of Applied Physics</i> , 2008 , 103, 113525 | 2.5 | 12 |
| 27 | Nanophotonic Matching by Optical Near-Fields between Shape-Engineered Nanostructures. <i>Applied Physics Express</i> , 2008 , 1, 112101 | 2.4 | 12 |
| 26 | Hierarchy in Optical Near-fields by Nano-scale Shape Engineering and its Application to Traceable Memory. <i>Applied Physics Express</i> , 2008 , 1, 062004 | 2.4 | 7 |
| 25 | Analysis and Synthesis of Hierarchy in Optical Near-Field Interactions at the Nanoscale Based on Angular Spectrum. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 6095-6103 | 1.4 | 26 |
| 24 | 2007 , | | 5 |
| 23 | Tamper resistance in optical excitation transfer based on optical near-field interactions. <i>Optics Letters</i> , 2007 , 32, 1761-3 | 3 | 22 |
| 22 | Generating small-scale structures from large-scale ones via optical near-field interactions. <i>Optics Express</i> , 2007 , 15, 11790-7 | 3.3 | 9 |
| 21 | Novel Layer-3 IP Packet Switching between 10 Gbps Ethernet and 80 Gbps Optical Packet-Switched Networks 2007 , | | 2 |
| 20 | Optical interconnects based on optical far- and near-field interactions for high-density data broadcasting. <i>Optics Express</i> , 2006 , 14, 306-13 | 3.3 | 21 |
| 19 | Plasmonic circuits for nanophotonic devices 2006 , 6323, 79 | | |
| 18 | Demonstration of nanophotonic NOT gate using near-field optically coupled quantum dots. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 84, 243-246 | 1.9 | 57 |
| 17 | Signal processing using optical near-field interactions. <i>The Review of Laser Engineering</i> , 2006 , 34, 234-235 | | |
| 16 | High-bandwidth measurement of femtosecond optical pulse timing based on two-dimensional transmission gating and parallel processing. <i>Optics Express</i> , 2005 , 13, 860-6 | 3.3 | |
| 15 | Hierarchy in optical near-fields and its application to memory retrieval. <i>Optics Express</i> , 2005 , 13, 9265-71 | 3.3 | 32 |

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|----|---|-----|----|
| 14 | Nanometric summation architecture based on optical near-field interaction between quantum dots. <i>Optics Letters</i> , 2005 , 30, 201-3 | 3 | 27 |
| 13 | Ultrafast all-optical NOR gate based on intersubband and interband transitions. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 1701-1703 | 2.2 | 12 |
| 12 | Nanophotonic Computing Based on Optical Near-Field Interactions between Quantum Dots. <i>IEICE Transactions on Electronics</i> , 2005 , E88-C, 1817-1823 | 0.4 | 24 |
| 11 | Multistage network with globally controlled switching stages and its implementation using optical multi-interconnection modules. <i>Journal of Lightwave Technology</i> , 2004 , 22, 315-328 | 4 | 5 |
| 10 | Terabit all-optical logic based on ultrafast two-dimensional transmission gating. <i>Optics Letters</i> , 2004 , 29, 608-10 | 3 | 7 |
| 9 | Femtosecond timing measurement and control using ultrafast organic thin films. <i>Applied Physics Letters</i> , 2003 , 83, 4869-4871 | 3.4 | 8 |
| 8 | Simple integration technique to realize parallel optical interconnects: implementation of a pluggable two-dimensional optical data link. <i>Applied Optics</i> , 2002 , 41, 5538-51 | 1.7 | 3 |
| 7 | Real-time active alignment demonstration for free-space optical interconnections. <i>IEEE Photonics Technology Letters</i> , 2001 , 13, 1257-1259 | 2.2 | 17 |
| 6 | Parallel Confocal Microscope using Vertical-Cavity Surface Emitting Laser Array. <i>Microscopy and Microanalysis</i> , 2001 , 7, 1004-1005 | 0.5 | |
| 5 | Optically interconnected pipelined parallel processing system: OCULAR-II 2000 , 4089, 440 | | |
| 4 | Analysis and characterization of alignment for free-space optical interconnects based on singular-value decomposition. <i>Applied Optics</i> , 2000 , 39, 293-301 | 1.7 | 6 |
| 3 | Reconfigurable optical interconnections for parallel computing. <i>Proceedings of the IEEE</i> , 2000 , 88, 829-834 | 4.3 | 17 |
| 2 | Optoelectronic parallel computing using optically interconnected pipelined processing arrays. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1999 , 5, 250-260 | 3.8 | 16 |
| 1 | Principles of Nanophotonics | | 43 |