

Hideo Kosaka

List of Publications by Year in descending order

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78
papers

4,327
citations

186265

28
h-index

110387

64
g-index

80
all docs

80
docs citations

80
times ranked

2544
citing authors

#	ARTICLE	IF	CITATIONS
1	Superprism phenomena in photonic crystals. <i>Physical Review B</i> , 1998, 58, R10096-R10099.	3.2	811
2	Self-collimating phenomena in photonic crystals. <i>Applied Physics Letters</i> , 1999, 74, 1212-1214.	3.3	697
3	Lightwave propagation through a 120° sharply bent single-line-defect photonic crystal waveguide. <i>Applied Physics Letters</i> , 2000, 76, 952-954.	3.3	270
4	Photonic crystals for micro lightwave circuits using wavelength-dependent angular beam steering. <i>Applied Physics Letters</i> , 1999, 74, 1370-1372.	3.3	259
5	Superprism phenomena in photonic crystals: toward microscale lightwave circuits. <i>Journal of Lightwave Technology</i> , 1999, 17, 2032-2038.	4.6	195
6	Observation of optical-fibre Kerr nonlinearity at the single-photon level. <i>Nature Photonics</i> , 2009, 3, 95-98.	31.4	125
7	Optical holonomic single quantum gates with a geometric spin under a zero field. <i>Nature Photonics</i> , 2017, 11, 309-314.	31.4	117
8	High-fidelity transfer and storage of photon states in a single nuclear spin. <i>Nature Photonics</i> , 2016, 10, 507-511.	31.4	108
9	Complete polarization control of 8Å—8 vertical cavity surface emitting laser matrix arrays. <i>Applied Physics Letters</i> , 1995, 66, 908-910.	3.3	106
10	Coherent Transfer of Light Polarization to Electron Spins in a Semiconductor. <i>Physical Review Letters</i> , 2008, 100, 096602.	7.8	105
11	Electron g factor engineering in III-V semiconductors for quantum communications. <i>Electronics Letters</i> , 2001, 37, 464.	1.0	100
12	Surface emitting laser operation in vertical cavity surface transmission electrophotonic devices with a vertical cavity. <i>Applied Physics Letters</i> , 1991, 58, 1250-1252.	3.3	93
13	Spin state tomography of optically injected electrons in a semiconductor. <i>Nature</i> , 2009, 457, 702-705.	27.8	87
14	Single-photon interference experiment over 100 km for quantum cryptography system using balanced gated-mode photon detector. <i>Electronics Letters</i> , 2003, 39, 1199.	1.0	86
15	Single-photon Interference over 150 km Transmission Using Silica-based Integrated-optic Interferometers for Quantum Cryptography. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L1217-L1219.	1.5	76
16	Universal holonomic quantum gates over geometric spin qubits with polarised microwaves. <i>Nature Communications</i> , 2018, 9, 3227.	12.8	59
17	Photonic-crystal spot-size converter. <i>Applied Physics Letters</i> , 2000, 76, 268-270.	3.3	55
18	A two-dimensional optical parallel transmission using a vertical-cavity surface-emitting laser array module and an image fiber. <i>IEEE Photonics Technology Letters</i> , 1997, 9, 253-255.	2.5	48

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19	Single photoelectron trapping, storage, and detection in a field effect transistor. <i>Physical Review B</i> , 2003, 67, .	3.2	47
20	Current versus Light-Output Characteristics with No Definite Threshold in pnpn Vertical to Surface Transmission Electro-Photonic Devices with a Vertical Cavity. <i>Japanese Journal of Applied Physics</i> , 1991, 30, L602-L604.	1.5	42
21	Universal holonomic single quantum gates over a geometric spin with phase-modulated polarized light. <i>Optics Letters</i> , 2018, 43, 2380.	3.3	41
22	Polarization-controlled single-mode VCSEL. <i>IEEE Journal of Quantum Electronics</i> , 1998, 34, 1009-1015.	1.9	39
23	Entangled Absorption of a Single Photon with a Single Spin in Diamond. <i>Physical Review Letters</i> , 2015, 114, 053603.	7.8	37
24	Decay time measurements of intrinsic luminescence in alkali halides using single-bunched light pulses from UVSOR. <i>Physica Scripta</i> , 1990, 41, 120-123.	2.5	35
25	A neuron-MOS neural network using self-learning-compatible synapse circuits. <i>IEEE Journal of Solid-State Circuits</i> , 1995, 30, 913-922.	5.4	35
26	Gigabit-rate optical-signal transmission using vertical-cavity surface-emitting lasers with large-core plastic-cladding fibers. <i>IEEE Photonics Technology Letters</i> , 1995, 7, 926-928.	2.5	34
27	Comparative analysis of the hspA mutant and wild-type <i>Synechocystis</i> sp. strain PCC 6803 under salt stress: evaluation of the role of hspA in salt-stress management. <i>Archives of Microbiology</i> , 2004, 182, 487-497.	2.2	30
28	An excellent weight-updating-linearity EEPROM synapse memory cell for self-learning Neuron-MOS neural networks. <i>IEEE Transactions on Electron Devices</i> , 1995, 42, 135-143.	3.0	29
29	Control of light-output polarization for surface-emitting-laser type device by strained active layer grown on misoriented substrate. <i>IEEE Journal of Quantum Electronics</i> , 1995, 31, 636-642.	1.9	28
30	Photoconductance quantization in a single-photon detector. <i>Physical Review B</i> , 2002, 65, .	3.2	28
31	Single charge detection of an electron created by a photon in a g-factor engineered quantum dot. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	27
32	Quantum teleportation-based state transfer of photon polarization into a carbon spin in diamond. <i>Communications Physics</i> , 2019, 2, .	5.3	26
33	Detector Characteristics of a Vertical-Cavity Surface-Emitting Laser. <i>Japanese Journal of Applied Physics</i> , 1991, 30, L1172-L1174.	1.5	25
34	High-speed VCSEL of modulation bandwidth over 7.0 GHz and its application to 100 m PCF datalink. <i>Journal of Lightwave Technology</i> , 1998, 16, 870-875.	4.6	25
35	Geometric spin echo under zero field. <i>Nature Communications</i> , 2016, 7, 11668.	12.8	23
36	Smart integration and packaging of 2D VCSEL's for high-speed parallel links. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1999, 5, 184-192.	2.9	22

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37	Cascadable optical switching characteristics in vertical-surface transmission electrophotonic devices operated as vertical cavity lasers. Applied Physics Letters, 1992, 60, 799-801.	3.3	21
38	Splitting of triply degenerate refractive indices by photonic crystals. Physical Review B, 2000, 62, 1477-1480.	3.2	21
39	Uniform characteristics with low threshold and high efficiency for a single-transverse-mode vertical-cavity surface-emitting laser-type device array. IEEE Photonics Technology Letters, 1994, 6, 323-325.	2.5	17
40	All-optical phase modulations in a silicon wire waveguide at ultralow light levels. Applied Physics Letters, 2009, 95, .	3.3	17
41	Alternately perpendicular polarisation in chequer-pattern matrix arrays of VCSELs. Electronics Letters, 1995, 31, 1573-1574.	1.0	16
42	Effect of sidewall reflector on current versus light output in a pnpn vertical-to-surface transmission electrophotonic device with a vertical cavity. IEEE Journal of Quantum Electronics, 1993, 29, 2006-2012.	1.9	14
43	Indistinct threshold laser operation in a pnpn vertical to surface transmission electrophotonic device with a vertical cavity. IEEE Journal of Quantum Electronics, 1993, 29, 403-410.	1.9	13
44	High electronic-optical conversion efficiency in a vertical-to-surface transmission electro-photonic device with a vertical cavity. IEEE Photonics Technology Letters, 1993, 5, 136-139.	2.5	13
45	Vertical-to-surface transmission electrophotonic device with a pnpn structure and vertical cavity. Optical and Quantum Electronics, 1992, 24, S121-S132.	3.3	12
46	Double-Mesa-Structure Vertical-to-Surface Transmission Electro-Photonic Device with a Vertical Cavity. Japanese Journal of Applied Physics, 1993, 32, 604-608.	1.5	12
47	Thermal Analysis of Laser-Emission Surface-Normal Optical Devices with a Vertical Cavity. Japanese Journal of Applied Physics, 1994, 33, 859-863.	1.5	12
48	Self-stopping selective-oxidation process of AlAs. Applied Physics Letters, 1998, 72, 2310-2312.	3.3	12
49	Dynamical Decoupling of a Geometric Qubit. Physical Review Applied, 2019, 12, .	3.8	12
50	Littrow-type external-cavity diode laser with a triangular prism for suppression of the lateral shift of output beam. Review of Scientific Instruments, 2006, 77, 046102.	1.3	11
51	Two-step frequency conversion for connecting distant quantum memories by transmission through an optical fiber. Japanese Journal of Applied Physics, 2018, 57, 062801.	1.5	11
52	1-Gb/s modulation characteristics of a vertical-cavity surface-emitting laser array module. IEEE Photonics Technology Letters, 1997, 9, 146-148.	2.5	10
53	A 16 x 16 optical full-cross-bar connection module with VCSEL-array push/pull module and polymer-waveguide coupler connector. IEEE Photonics Technology Letters, 1997, 9, 244-246.	2.5	10
54	Lossless all-optical phase gate using a polarization-division Sagnac interferometer applicable to a waveguide-type Kerr medium. Applied Physics Letters, 2007, 91, 171119.	3.3	10

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55	Photon-to-electron quantum information transfer. <i>Journal of Applied Physics</i> , 2011, 109, 102414.	2.5	10
56	Excitonic Rabi oscillations in self-assembled quantum dots in the presence of a local field effect. <i>Physical Review B</i> , 2013, 87, .	3.2	10
57	Pixels Consisting of Double Vertical-Cavity Detector and Single Vertical-Cavity Laser Sections for 2-D Bidirectional Optical Interconnections. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 600-603.	1.5	9
58	Polarization transfer from photon to electron spin in g factor engineered quantum wells. <i>Applied Physics Letters</i> , 2007, 90, 113511.	3.3	9
59	Geometric entanglement of a photon and spin qubits in diamond. <i>Communications Physics</i> , 2021, 4, .	5.3	9
60	Creation of entangled spin qubits between distant quantum dots. <i>Physical Review B</i> , 2013, 88, .	3.2	8
61	Proposal of a full Bell state analyzer for spin qubits in a double quantum dot. <i>Physical Review B</i> , 2010, 81, .	3.2	7
62	Absorption-based quantum communication with NV centres. <i>New Journal of Physics</i> , 2015, 17, 103012.	2.9	7
63	Generation of polarization entanglement from spatially correlated photons in spontaneous parametric down-conversion. <i>Physical Review A</i> , 2008, 77, .	2.5	6
64	Electrical Measurement of a Two-Electron Spin State in a Double Quantum Dot. <i>Physical Review Letters</i> , 2009, 103, 046806.	7.8	6
65	Quantum error correction of spin quantum memories in diamond under a zero magnetic field. <i>Communications Physics</i> , 2022, 5, .	5.3	6
66	Electron spin state tomography with coherent Kerr effect. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	5
67	Coherent transfer of time-bin photons to electron spins in a semiconductor. <i>Physical Review A</i> , 2012, 85, .	2.5	4
68	Complete Bell state measurement of diamond nuclear spins under a complete spatial symmetry at zero magnetic field. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	4
69	Single-electron spin resonance in a g-factor-controlled semiconductor quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 821-824.	2.7	3
70	Process tomography of coherent state transfer from light polarization to electron spin polarization in a semiconductor. <i>Physical Review B</i> , 2014, 89, .	3.2	3
71	Theoretical Analysis of the Optimal Conditions for Photon-Spin Quantum State Transfer. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 114004.	1.6	3
72	Measurement of Electron Spin States in a Semiconductor Quantum Well Using Tomographic Kerr Rotation. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 04DJ09.	1.5	2

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73	Compact frequency-stabilized pump laser for wavelength conversion in long-distance quantum communication. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2023.	2.1	1
74	Vertical-coupled surface transmission electrophotonic device and its application to optical interconnection. Electronics and Communications in Japan, 1992, 75, 20-31.	0.2	0
75	Scheme for Bell state measurement in a g-factor engineered double dot. Journal of Physics: Conference Series, 2010, 200, 112012.	0.4	0
76	Excitonic Rabi oscillations in self-assembled quantum dots studied by photon echoes. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2513-2516.	0.8	0
77	Magneto-optical Kerr effect tomography of an electron spin state in a semiconductor quantum dot. , 2009, , .		0
78	Coherent Transfer of Time-bin Photons to Electron Spins in a Semiconductor. , 2012, , .		0