Kenichi Yamashita

List of Publications by Year
in descending order

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132	1,840	361413	330143
papers	citations	20 h-index	37 g-index

133	133	133	1976
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	DNA Sensing on a DNA Probe-Modified Electrode Using Ferrocenylnaphthalene Diimide as the Electrochemically Active Ligand. Analytical Chemistry, 2000, 72, 1334-1341.	6.5	341
2	Live births from artificial insemination of microfluidic-sorted bovine spermatozoa characterized by trajectories correlated with fertility. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3087-E3096.	7.1	60
3	Interface configuration of the two layered laminar flow in a curved microchannel. Chemical Engineering Journal, 2004, 101, 367-372.	12.7	59
4	Combinatorial Synthesis of CdSe Nanoparticles Using Microreactors. Journal of Physical Chemistry C, 2010, 114, 7527-7534.	3.1	59
5	Visualization of DNA microarrays by scanning electrochemical microscopy (SECM). Analyst, The, 2001, 126, 1210-1211.	3.5	57
6	Electrochemical Detection of Nucleic Base Mismatches with Ferrocenyl Naphthalene Diimide. Analytical Biochemistry, 2002, 306, 188-196.	2.4	50
7	Electrochemical analysis of single nucleotide polymorphisms of p53 gene. Talanta, 2002, 56, 829-835.	5.5	47
8	Simultaneous RGB lasing from a single-chip polymer device. Optics Letters, 2010, 35, 2451.	3.3	47
9	Solid state organic laser emission at 970nm from dye-doped fluorinated-polyimide planar waveguides. Applied Physics Letters, 2008, 93, 023306.	3.3	38
10	Efficient Immobilization of Enzymes on Microchannel Surface Through His-Tag and Application for Microreactor. Protein and Peptide Letters, 2005, 12, 207-210.	0.9	36
11	Application of Artificial Neural Networks to Rapid Data Analysis in Combinatorial Nanoparticle Syntheses. Journal of Physical Chemistry C, 2012, 116, 17885-17896.	3.1	33
12	Sequence-selective DNA detection using multiple laminar streams: A novel microfluidic analysis method. Lab on A Chip, 2004, 4, 1.	6.0	31
13	Ferrocenylnaphthalene Diimide-Based Electrochemical Hybridization Assay for a Heterozygous Deficiency of the Lipoprotein Lipase Gene. Bioconjugate Chemistry, 2002, 13, 1193-1199.	3.6	30
14	Controlling Protein Crystal Nucleation by Dropletâ€Based Microfluidics. Chemistry - A European Journal, 2014, 20, 1049-1056.	3.3	28
15	Bovine sperm selection procedure prior to cryopreservation for improvement of post-thawed semen quality and fertility. Journal of Animal Science and Biotechnology, 2019, 10, 91.	5.3	27
16	Direct observation of long-strand DNA conformational changing in microchannel flow and microfluidic hybridization assay. Analytical Biochemistry, 2004, 332, 274-279.	2.4	26
17	Rapid Micromixing Based on Multilayer Laminar Flows. Journal of Chemical Engineering of Japan, 2004, 37, 1265-1270.	0.6	26
18	Imaging of DNA microarray with scanning electrochemical microscopy. Electrochimica Acta, 2006, 51, 2023-2029.	5.2	22

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19	Lab-on-a-chip flow cytometer employing color-space-time coding. Applied Physics Letters, 2010, 97, .	3.3	22
20	Nanoclusters Synthesized by Synchrotron Radiolysis in Concert with Wet Chemistry. Scientific Reports, 2014, 4, 7199.	3.3	22
21	A method for generating single crystals that rely on internal fluid dynamics of microdroplets. Chemical Communications, 2012, 48, 5037.	4.1	21
22	Microreactor combinatorial system for nanoparticle synthesis with multiple parameters. Chemical Engineering Science, 2012, 75, 292-297.	3.8	21
23	Ultrafast Dynamics of Polariton Cooling and Renormalization in an Organic Single-Crystal Microcavity under Nonresonant Pumping. ACS Photonics, 2018, 5, 2182-2188.	6.6	21
24	Direct optical transitions in indirect-gap (Al0.5Ga0.5)0.51In0.49P by atomic ordering. Physical Review B, 1996, 53, 15713-15718.	3.2	20
25	Photoluminescence from metastable states in long-range ordered (Al0.5Ga0.5)0.51In0.49P. Physical Review B, 1997, 55, 4411-4416.	3.2	20
26	Direct Observation of Long-strand DNA Stretching in Microchannel Flow. Chemistry Letters, 2004, 33, 628-629.	1.3	20
27	Controlling one protein crystal growth by droplet-based microfluidic system. Journal of Biochemistry, 2013, 153, 339-346.	1.7	20
28	A Method of Cryoprotection for Protein Crystallography by Using a Microfluidic Chip and Its Application for in Situ X-ray Diffraction Measurements. Analytical Chemistry, 2015, 87, 4194-4200.	6.5	20
29	Vertical cavity surface emitting lasing from cyano-substituted thiophene/phenylene co-oligomer single crystals. Applied Physics Letters, 2014, 104, 253301.	3.3	19
30	A microfluidic-based protein crystallization method in 10 micrometer-sized crystallization space. CrystEngComm, 2016, 18, 7722-7727.	2.6	19
31	Ferrocenyl naphthalene diimide can bind to DNAÂ·RNA hetero duplex: potential use in an electrochemical detection of mRNA expression. Journal of Organometallic Chemistry, 2001, 637-639, 476-483.	1.8	18
32	Vertical cavity lasing from melt-grown crystals of cyano-substituted thiophene/phenylene co-oligomer. Applied Physics Letters, 2015, 107, 163303.	3.3	18
33	Simple separation of good quality bovine oocytes using a microfluidic device. Scientific Reports, 2018, 8, 14273.	3.3	18
34	Array of a dye-doped polymer-based microlaser with multiwavelength emission. Optics Letters, 2011, 36, 1875.	3.3	17
35	Three-dimensional Raman spectroscopic imaging of protein crystals deposited on a nanodroplet. Analyst, The, 2012, 137, 5730.	3.5	16
36	Strong exciton-photon coupling in organic single crystal microcavity with high molecular orientation. Applied Physics Letters, 2016, 109, .	3.3	16

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37	Excitation Dynamics in Layered Lead Halide Perovskite Crystal Slabs and Microcavities. ACS Photonics, 2020, 7, 845-852.	6.6	16
38	Direct Detection of Single Nucleotide Polymorphism (SNP) with Genomic DNA by the Ferrocenylnaphthalene Diimide-based Electrochemical Hybridization Assay (FND-EHA).. Analytical Sciences, 2003, 19, 79-83.	1.6	15
39	High-Gain Optical Amplification of Europiumâ€“Aluminum (Eu3+â€“Al)-Nanocluster-Doped Planar Polymer Waveguides. Japanese Journal of Applied Physics, 2007, 46, L83-L85.	1.5	15
40	Dye-doped polymer microring laser coupled with stimulated resonant Raman scattering. Applied Physics Letters, 2009, 95, 033306.	3.3	15
41	Computational Method for Efficient Screening of Metal Precursors for Nanomaterial Syntheses. Industrial & Engineering Chemistry Research, 2009, 48, 3389-3397.	3.7	14
42	Influence of gravity on a laminar flow in a microbioanalysis system. Measurement Science and Technology, 2006, 17, 3162-3166.	2.6	13
43	Integration of Optical Pumped Dye Laser on Organic Microflowcytometry Chip. Molecular Crystals and Liquid Crystals, 2007, 463, 131/[413]-140/[422].	0.9	13
44	Carrier localization effects in energy up conversion at ordered (Al0.5Ga0.5)0.5In0.5P/GaAs heterointerface. Journal of Applied Physics, 1998, 84, 359-363.	2.5	12
45	Electrochemical Detection of Base Pair Mutation. Chemistry Letters, 2000, 29, 1038-1039.	1.3	12
46	Differential regulation of chemical reactions in a microchannel reaction system. New Journal of Chemistry, 2004, 28, 1622.	2.8	12
47	Analysis of Kinetic Behavior of Protein Crystallization in Nanodroplets. Chemistry Letters, 2011, 40, 825-827.	1.3	12
48	Simple density-based particle separation in a microfluidic chip. Analytical Methods, 2014, 6, 308-311.	2.7	12
49	Device Parameter Analyses of Solid-State Organic Laser Made by Self-Written Active Waveguide Technique. Journal of Lightwave Technology, 2009, 27, 4570-4574.	4.6	10
50	Solvent Extraction Behavior of Metal Ions with Calixarene Derivatives by Using a Microreactor. Solvent Extraction Research and Development, 2014, 21, 77-82.	0.4	10
51	Quantitative evaluation of lightâ€“matter interaction parameters in organic single-crystal microcavities. Optics Letters, 2018, 43, 1047.	3.3	10
52	Microfluidic Inverted Flow of Ternary Water/Hydrophilic/ Hydrophobic Organic Solvent Solution in a Y-Type Microchannel and a Proposal of the Response Microfluidic Analysis through the Experiment. Analytical Sciences, 2019, 35, 249-256.	1.6	10
53	Chemiluminescence from singlet oxygen under laminar flow condition in a micro-channel. Analytica Chimica Acta, 2006, 570, 202-206.	5.4	9
54	Nonimmobilized Enzyme Kinetics That Rely on Laminar Flow. Journal of Physical Chemistry A, 2009, 113, 165-169.	2.5	9

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55	Patterning on Cyanine-Dye-Doped Conductive Polymer Films by Ink Jet Method. Japanese Journal of Applied Physics, 2010, 49, 010204.	1.5	9
56	Drastic transitions of excited state and coupling regime in all-inorganic perovskite microcavities characterized by exciton/plasmon hybrid natures. Light: Science and Applications, 2022, 11, 8.	16.6	9
57	Optical Amplification in Organic Dye-doped Polymeric Channel Waveguide under CW Optical Pumping. Japanese Journal of Applied Physics, 2007, 46, L688.	1.5	8
58	Fiber-to-Fiber Optical Gain of Polymer-Based Amplifier with Self-Written Active Waveguide. Japanese Journal of Applied Physics, 2009, 48, 102406.	1.5	8
59	Microfluidic Thermodynamics of the Shift in Thermal Stability of DNA Duplex in a Microchannel Laminar Flow. Journal of Physical Chemistry B, 2007, 111, 6127-6133.	2.6	7
60	Thermodynamic Properties of Duplex DNA in Microchannel Laminar Flow. ChemPhysChem, 2007, 8, 1307-1310.	2.1	7
61	Homogeneous and reproducible liposome preparation relying on reassembly in microchannel laminar flow. Chemical Engineering Journal, 2010, 165, 324-327.	12.7	7
62	Surface-emitting dye-doped polymer laser coupled with stimulated resonant Raman scattering. Applied Physics Letters, 2010, 96, .	3.3	7
63	Phase Separation and Collection of Annular Flow by Phase Transformation. Analytical Sciences, 2019, 35, 1279-1282.	1.6	7
64	Microfluidic system for DNA sequence detection. Chemical Engineering Journal, 2004, 101, 157-161.	12.7	6
65	Peak Formation Due to Chemiluminescence Reaction through the Collapse of Laminar Flow Liquidâ€“Liquid Interface in a Microreactor. Chemistry Letters, 2004, 33, 1178-1179.	1.3	6
66	Amplification properties of Tb (III) green emission in polymeric waveguide doped with Tbâ€“Al nanocluster. Journal of Luminescence, 2009, 129, 526-530.	3.1	6
67	1.3 Âµm Solid-State Plastic Laser in Dye-Doped Fluorinated-Polyimide Waveguide. Applied Physics Express, 2010, 3, 092202.	2.4	6
68	A method for generating a metastable crystal in a microdroplet. CrystEngComm, 2013, 15, 9874.	2.6	6
69	High-gain and wide-band optical amplifications induced by a coupled excited state of organic dye molecules co-doped in polymer waveguide. Optics Letters, 2018, 43, 1714.	3.3	6
70	Design principle of high-performance organic single-crystal light-emitting devices. Journal of Applied Physics, 2018, 123, .	2.5	6
71	Impact of material parameters on strong excitonâ€“photon coupling states formed in microcrystal resonators of p- and n-type thiophene/phenylene co-oligomers. Journal of Materials Chemistry C, 2021, 9, 11189-11197.	5.5	6
72	Near Infrared Light Amplification in Dye-Doped Polymer Waveguide. Japanese Journal of Applied Physics, 2006, 45, L355-L357.	1.5	5

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73	Polymer Waveguide Optical Amplifier Using Organic/Inorganic Nanocomposites Doped With Rare-Earth-Metal Nanoclusters. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 67-72.	0.3	5
74	Characterization of chemiluminescence from singlet oxygen under laminar flow conditions in a micro-channel and its quenching with beverages. Talanta, 2007, 72, 607-611.	5.5	5
75	The change of activation energy in microchannel laminar flow as demonstrated by kinetic analysis of the DNA duplexâ€“coil equilibrium. Lab on A Chip, 2008, 8, 1171.	6.0	5
76	Enhanced thermal stability and mismatch discrimination of mutation-carrying DNA duplexes and their kinetic and thermodynamic properties in microchannel laminar flow. Analytical Biochemistry, 2009, 390, 38-45.	2.4	5
77	Optically end-pumped plastic waveguide laser with in-line Fabry-PÃ©rot resonator. Optics Express, 2010, 18, 24092.	3.4	5
78	Michrochip chromatography using an openâ€tubular microchannel and a ternary waterâ€“<scp>ACN</scp>â€“ethyl acetate mixture carrier solution. Journal of Separation Science, 2013, 36, 965-970.	2.5	5
79	Organic Nanowire Lasers with Epitaxially Grown Crystals of Semiconducting Oligomers. ChemNanoMat, 2017, 3, 625-631.	2.8	5
80	Surface-emitting vertical cavity with vapor-grown single crystal of cyano-substituted thiophene/phenylene co-oligomer. Japanese Journal of Applied Physics, 2017, 56, 04CL02.	1.5	5
81	Higher-interband electroreflectance of long-range orderedGa0.5In0.5P. Physical Review B, 1996, 54, 16714-16718.	3.2	4
82	Genotyping of the Human Lipoprotein Lipase Gene by Ferrocenylnaphthalene Diimide-based Electrochemical Hybridization Assay. Analytical Sciences, 2005, 21, 1437-1441.	1.6	4
83	Specific molecule localization in microchannel laminar flow and its application for non-immobilized-probe analysis. Analytical and Bioanalytical Chemistry, 2005, 382, 1477-1483.	3.7	4
84	Chromatography Using Ternary Waterâ€“Acetonitrileâ€“Ethyl Acetate Mixture as a Carrier Solution on a Microchip Incorporating Microchannels. Chemistry Letters, 2012, 41, 1448-1450.	1.3	4
85	Wavelength-Switchable Lasing From a Polymer Single Chip Device Codoped With Organic Dyes. IEEE Photonics Technology Letters, 2014, 26, 1707-1710.	2.5	4
86	Tube Radial Distribution Chromatography on a Microchip Incorporating Microchannels with a Three-to-One Channel Confluence Point. Analytical Sciences, 2015, 31, 1267-1272.	1.6	4
87	Cooperative Behaviors in Amplified Emission from Single Microcrystals of Thiophene/Phenylene Coâ€Oligomers toward Organic Polariton Laser. Advanced Optical Materials, 2019, 7, 1900136.	7.3	4
88	Comprehensive Photophysical Properties of Thiophene/Phenylene Co-oligomers Investigated by Theoretical and Experimental Studies. Journal of Physical Chemistry C, 2020, 124, 18946-18955.	3.1	4
89	A polymer film with ultra-broadband optical gain characteristics. Applied Physics Letters, 2020, 116, 063301.	3.3	4
90	In vitro survival kinetics of microfluidicâ€sorted bovine spermatozoa. Andrology, 2021, 9, 977-988.	3.5	4

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91	Anisotropic light-matter coupling and below-threshold excitation dynamics in an organic crystal microcavity. Optics Express, 2021, 29, 26433.	3.4	4
92	Broadband Optical Amplification of Waveguide Cutâ€Off Mode in Polymer Waveguide Doped with Graphene Quantum Dots. Advanced Optical Materials, 2022, 10, .	7.3	4
93	Optically Pumped Lasing Based on Vibrationally Dressed Exciton Polaritons in a Single-Crystal Molecular Cavity at Room Temperature. ACS Photonics, 2022, 9, 2015-2023.	6.6	4
94	BASE MUTATION ANALYSIS BY A FERROCENYL NAPHTHALENE DIIMIDE DERIVATIVE. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 1429-1432.	1.1	3
95	Micro-channel Chemiluminescence Analysis Using a Peroxyoxalate Reaction that Works through Liquid-Liquid Interface Collapse under Laminar-Flow Conditions. Analytical Sciences, 2008, 24, 1393-1398.	1.6	3
96	Transmission properties of microwaves at an optical Weyl point in a three-dimensional chiral photonic crystal. Optics Express, 2021, 29, 27127.	3.4	3
97	Compact solid-state organic laser with fine and broadband wavelength tunability. Optics Express, 2019, 27, 35548.	3.4	3
98	Japanese Dairy Cattle Productivity Analysis using Bayesian Network Model (BNM). International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.7	3
99	Development of Tube Radial Distribution Chromatography Based on Phase-Separation Multiphase Flow Created via Pressure Loss. Analytical Sciences, 2019, 35, 803-806.	1.6	3
100	Microfluidic device for rapid detection of cytomegalovirus (CMV) by sequence-specific hybridization of PCR-amplified CMV-DNA. , 2006, , .		2
101	Direct circular dichroism spectra measurement of stretching long-strand DNA in a tapering microchannel. Chemical Engineering Journal, 2008, 135, S288-S291.	12.7	2
102	Development of automatic combinatorial system for synthesis of nanoparticles using microreactors. IOP Conference Series: Materials Science and Engineering, 2011, 18, 082010.	0.6	2
103	Polymer optical waveguide composed of europium-aluminum-acrylate composite core for compact optical amplifier and laser. Proceedings of SPIE, 2015, , .	0.8	2
104	Wavelength Tunability of Plastic Waveguide Laser With Asymmetric Distributed Bragg Reflectors. Journal of Lightwave Technology, 2015, 33, 4600-4605.	4.6	2
105	Strong exciton-photon coupling in organic microcavity electroluminescence devices with thiophene/phenylene co-oligomer derivatives. Applied Physics Express, 2019, 12, 111002.	2.4	2
106	Dry-wet hybrid deposition of wide-bandgap mixed-halide perovskites for tandem solar cell applications. Applied Physics Letters, 2020, 117, 171901.	3.3	2
107	Electronic Structure of Ordered Ga0.5In0.5P/GaAs Heterointerface Studied by Raman-Scattering and Photoluminescence-Excitation Measurements. Japanese Journal of Applied Physics, 2005, 44, 7390-7394.	1.5	1
108	High-Gain Optical Amplification of Europium-Aluminum Nanocluster Doped Planar Polymer Waveguides. , 2007, , .		1

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109	Impact of Coumarin Dye Doping on Photovoltaic Properties of Bulk Heterojunction Device. Japanese Journal of Applied Physics, 2012, 51, 080207.	1.5	1
110	Carrier transport and charge transfer properties in coumarinâ€doped bulkâ€heterojunction materials. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2399-2402.	0.8	1
111	Singlemode-emitting plastic laser fabricated by waveguide self-formation and interference exposure processes. , 2013, , .		1
112	Doping effects of fluorinated organic dyes on the open-circuit voltage of bulk-heterojunction photovoltaic devices. Japanese Journal of Applied Physics, 2015, 54, 08KF01.	1.5	1
113	Modification of dry/wet hybrid fabrication method for preparing a perovskite absorption layer on a PCBM electron transport layer. RSC Advances, 2018, 8, 39047-39052.	3.6	1
114	Organic Polariton Lasers: Cooperative Behaviors in Amplified Emission from Single Microcrystals of Thiophene/Phenylene Coâ€Oligomers toward Organic Polariton Laser (Advanced Optical Materials) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.3	1
115	Development of Sequence-selective DNA Analysis Using Microfluidic Size Separation of Double-stranded DNA. Kagaku Kogaku Ronbunshu, 2004, 30, 169-172.	0.3	1
116	Morphological and functional characterizations of SnO₂ electron extraction layer on transparent conductive oxides in lead-halide perovskite solar cells. Applied Physics Letters, 2022, 120, 191604.	3.3	1
117	Linear electrooptic effect in ordered (Al0.5Ga0.5)0.5In0.5P. Journal of Applied Physics, 1999, 86, 3140-3143.	2.5	0
118	Supramolecular Assembly of Fullerene Derivatives in the Absence or Presence of Double Stranded DNA in Water. Bunseki Kagaku, 2005, 54, 449-454.	0.2	0
119	Integration of plastic waveguide lasers on film and its application. , 2006, , .		0
120	Anisotropic Optical Transitions in [110]-Oriented Semiconductor Quantum Well Studied by Photoreflectance Spectroscopy. Japanese Journal of Applied Physics, 2007, 46, 1536-1539.	1.5	0
121	Oscillating characteristics of self-written active waveguide laser with in-line cavity. , 2008, , .		0
122	Investigation of Carrier Collection Capability in Organic Heterostructure with Conductive Polymer Nanofiber. Japanese Journal of Applied Physics, 2011, 50, 080204.	1.5	0
123	Highly photostable lasing in an organic crystal of thiophene/phenylene co-oligomer. , 2011, , .		0
124	Fabrication of graded index profile in self-written waveguide by UV exposure method. , 2015, , .		0
125	Organic-Lead Halide Perovskite Solar Cell with ITO Transparent Electrode Deposited by Sputtering Process. Zairyo/Journal of the Society of Materials Science, Japan, 2016, 65, 642-646.	0.2	0
126	Simulation of Laminar Flow Behavior in a Microchannel and Its Three-dimensional Visualization. Kagaku Kogaku Ronbunshu, 2004, 30, 341-345.	0.3	0

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127	Validation of Microfluidic Hybridization Device for Post-PCR Analysis and Clinical Identification of Human Cytomegalovirus (CMV). Advanced Science Letters, 2010, 3, 273-281.	0.2	0
128	Self-formation of Polymeric Waveguide for Novel Optical Functionality. Journal of Smart Processing, 2013, 2, 257-262.	0.1	0
129	Method for Productive Cattle Finding with Estrus Cycle Estimated with BCS and Parity Number and Hormone Treatments based on a Regressive Analysis. International Journal of Advanced Computer Science and Applications, 2017, 8, .	0.7	0
130	Recent Progress in Studies of Room-Temperature Cavity Polariton in Organic Compounds. The Review of Laser Engineering, 2018, 46, 20.	0.0	0
131	Time Series Analysis for Shortened Labor Mean Interval of Dairy Cattle with the Data of BCS, RFS, Weight, Amount of Milk and Outlook. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.7	0
132	Evaluating Programmed Artificial Insemination for Cattle Production. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.7	0