

Kenichi Yamashita

List of Publications by Year in descending order

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132
papers

1,840
citations

361413

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133
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#	ARTICLE	IF	CITATIONS
1	Drastic transitions of excited state and coupling regime in all-inorganic perovskite microcavities characterized by exciton/plasmon hybrid natures. <i>Light: Science and Applications</i> , 2022, 11, 8.	16.6	9
2	Broadband Optical Amplification of Waveguide Cut-Off Mode in Polymer Waveguide Doped with Graphene Quantum Dots. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	4
3	Morphological and functional characterizations of SnO ₂ electron extraction layer on transparent conductive oxides in lead-halide perovskite solar cells. <i>Applied Physics Letters</i> , 2022, 120, 191604.	3.3	1
4	Optically Pumped Lasing Based on Vibrationally Dressed Exciton Polaritons in a Single-Crystal Molecular Cavity at Room Temperature. <i>ACS Photonics</i> , 2022, 9, 2015-2023.	6.6	4
5	In vitro survival kinetics of microfluidic-sorted bovine spermatozoa. <i>Andrology</i> , 2021, 9, 977-988.	3.5	4
6	Impact of material parameters on strong exciton-photon coupling states formed in microcrystal resonators of p- and n-type thiophene/phenylene co-oligomers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11189-11197.	5.5	6
7	Transmission properties of microwaves at an optical Weyl point in a three-dimensional chiral photonic crystal. <i>Optics Express</i> , 2021, 29, 27127.	3.4	3
8	Anisotropic light-matter coupling and below-threshold excitation dynamics in an organic crystal microcavity. <i>Optics Express</i> , 2021, 29, 26433.	3.4	4
9	Comprehensive Photophysical Properties of Thiophene/Phenylene Co-oligomers Investigated by Theoretical and Experimental Studies. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18946-18955.	3.1	4
10	Dry-wet hybrid deposition of wide-bandgap mixed-halide perovskites for tandem solar cell applications. <i>Applied Physics Letters</i> , 2020, 117, 171901.	3.3	2
11	Excitation Dynamics in Layered Lead Halide Perovskite Crystal Slabs and Microcavities. <i>ACS Photonics</i> , 2020, 7, 845-852.	6.6	16
12	A polymer film with ultra-broadband optical gain characteristics. <i>Applied Physics Letters</i> , 2020, 116, 063301.	3.3	4
13	Strong exciton-photon coupling in organic microcavity electroluminescence devices with thiophene/phenylene co-oligomer derivatives. <i>Applied Physics Express</i> , 2019, 12, 111002.	2.4	2
14	Organic Polariton Lasers: Cooperative Behaviors in Amplified Emission from Single Microcrystals of Thiophene/Phenylene Co-oligomers toward Organic Polariton Laser (<i>Advanced Optical Materials</i>)	7.3	4
15	Cooperative Behaviors in Amplified Emission from Single Microcrystals of Thiophene/Phenylene Co-oligomers toward Organic Polariton Laser. <i>Advanced Optical Materials</i> , 2019, 7, 1900136.	7.3	4
16	Bovine sperm selection procedure prior to cryopreservation for improvement of post-thawed semen quality and fertility. <i>Journal of Animal Science and Biotechnology</i> , 2019, 10, 91.	5.3	27
17	Phase Separation and Collection of Annular Flow by Phase Transformation. <i>Analytical Sciences</i> , 2019, 35, 1279-1282.	1.6	7
18	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. <i>Analytical Sciences</i> , 2019, 35, 249-256.	1.6	10

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19	Compact solid-state organic laser with fine and broadband wavelength tunability. <i>Optics Express</i> , 2019, 27, 35548.	3.4	3
20	Evaluating Programmed Artificial Insemination for Cattle Production. <i>International Journal of Advanced Computer Science and Applications</i> , 2019, 10, .	0.7	0
21	Development of Tube Radial Distribution Chromatography Based on Phase-Separation Multiphase Flow Created via Pressure Loss. <i>Analytical Sciences</i> , 2019, 35, 803-806.	1.6	3
22	Ultrafast Dynamics of Polariton Cooling and Renormalization in an Organic Single-Crystal Microcavity under Nonresonant Pumping. <i>ACS Photonics</i> , 2018, 5, 2182-2188.	6.6	21
23	Live births from artificial insemination of microfluidic-sorted bovine spermatozoa characterized by trajectories correlated with fertility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3087-E3096.	7.1	60
24	Modification of dry/wet hybrid fabrication method for preparing a perovskite absorption layer on a PCBM electron transport layer. <i>RSC Advances</i> , 2018, 8, 39047-39052.	3.6	1
25	Simple separation of good quality bovine oocytes using a microfluidic device. <i>Scientific Reports</i> , 2018, 8, 14273.	3.3	18
26	Quantitative evaluation of light-matter interaction parameters in organic single-crystal microcavities. <i>Optics Letters</i> , 2018, 43, 1047.	3.3	10
27	High-gain and wide-band optical amplifications induced by a coupled excited state of organic dye molecules co-doped in polymer waveguide. <i>Optics Letters</i> , 2018, 43, 1714.	3.3	6
28	Design principle of high-performance organic single-crystal light-emitting devices. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	6
29	Recent Progress in Studies of Room-Temperature Cavity Polariton in Organic Compounds. <i>The Review of Laser Engineering</i> , 2018, 46, 20.	0.0	0
30	Time Series Analysis for Shortened Labor Mean Interval of Dairy Cattle with the Data of BCS, RFS, Weight, Amount of Milk and Outlook. <i>International Journal of Advanced Computer Science and Applications</i> , 2018, 9, .	0.7	0
31	Organic Nanowire Lasers with Epitaxially Grown Crystals of Semiconducting Oligomers. <i>ChemNanoMat</i> , 2017, 3, 625-631.	2.8	5
32	Surface-emitting vertical cavity with vapor-grown single crystal of cyano-substituted thiophene/phenylene co-oligomer. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 04CL02.	1.5	5
33	Method for Productive Cattle Finding with Estrus Cycle Estimated with BCS and Parity Number and Hormone Treatments based on a Regressive Analysis. <i>International Journal of Advanced Computer Science and Applications</i> , 2017, 8, .	0.7	0
34	Strong exciton-photon coupling in organic single crystal microcavity with high molecular orientation. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	16
35	A microfluidic-based protein crystallization method in 10 micrometer-sized crystallization space. <i>CrystEngComm</i> , 2016, 18, 7722-7727.	2.6	19
36	Organic-Lead Halide Perovskite Solar Cell with ITO Transparent Electrode Deposited by Sputtering Process. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2016, 65, 642-646.	0.2	0

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37	Japanese Dairy Cattle Productivity Analysis using Bayesian Network Model (BNM). International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.7	3
38	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
39	Vertical cavity lasing from melt-grown crystals of cyano-substituted thiophene/phenylene co-oligomer. Applied Physics Letters, 2015, 107, 163303.	3.3	18
40	Fabrication of graded index profile in self-written waveguide by UV exposure method. , 2015, , .		0
41	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
42	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
43	Polymer optical waveguide composed of europium-aluminum-acrylate composite core for compact optical amplifier and laser. Proceedings of SPIE, 2015, , .	0.8	2
44	Wavelength Tunability of Plastic Waveguide Laser With Asymmetric Distributed Bragg Reflectors. Journal of Lightwave Technology, 2015, 33, 4600-4605.	4.6	2
45	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
46	Wavelength-Switchable Lasing From a Polymer Single Chip Device Codoped With Organic Dyes. IEEE Photonics Technology Letters, 2014, 26, 1707-1710.	2.5	4
47	Vertical cavity surface emitting lasing from cyano-substituted thiophene/phenylene co-oligomer single crystals. Applied Physics Letters, 2014, 104, 253301.	3.3	19
48	Controlling Protein Crystal Nucleation by Droplet-Based Microfluidics. Chemistry - A European Journal, 2014, 20, 1049-1056.	3.3	28
49	Simple density-based particle separation in a microfluidic chip. Analytical Methods, 2014, 6, 308-311.	2.7	12
50	Nanoclusters Synthesized by Synchrotron Radiolysis in Concert with Wet Chemistry. Scientific Reports, 2014, 4, 7199.	3.3	22
51	A method for generating a metastable crystal in a microdroplet. CrystEngComm, 2013, 15, 9874.	2.6	6
52	Controlling one protein crystal growth by droplet-based microfluidic system. Journal of Biochemistry, 2013, 153, 339-346.	1.7	20
53	Microchip chromatography using an open-tubular microchannel and a ternary water-ACN-ethyl acetate mixture carrier solution. Journal of Separation Science, 2013, 36, 965-970.	2.5	5
54	Singlemode-emitting plastic laser fabricated by waveguide self-formation and interference exposure processes. , 2013, , .		1

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55	Self-formation of Polymeric Waveguide for Novel Optical Functionality. <i>Journal of Smart Processing</i> , 2013, 2, 257-262.	0.1	0
56	Impact of Coumarin Dye Doping on Photovoltaic Properties of Bulk Heterojunction Device. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 080207.	1.5	1
57	Chromatography Using Ternary Water–Acetonitrile–Ethyl Acetate Mixture as a Carrier Solution on a Microchip Incorporating Microchannels. <i>Chemistry Letters</i> , 2012, 41, 1448-1450.	1.3	4
58	Carrier transport and charge transfer properties in coumarin-doped bulk heterojunction materials. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 2399-2402.	0.8	1
59	Three-dimensional Raman spectroscopic imaging of protein crystals deposited on a nanodroplet. <i>Analyst</i> , 2012, 137, 5730.	3.5	16
60	Application of Artificial Neural Networks to Rapid Data Analysis in Combinatorial Nanoparticle Syntheses. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17885-17896.	3.1	33
61	A method for generating single crystals that rely on internal fluid dynamics of microdroplets. <i>Chemical Communications</i> , 2012, 48, 5037.	4.1	21
62	Microreactor combinatorial system for nanoparticle synthesis with multiple parameters. <i>Chemical Engineering Science</i> , 2012, 75, 292-297.	3.8	21
63	Array of a dye-doped polymer-based microlaser with multiwavelength emission. <i>Optics Letters</i> , 2011, 36, 1875.	3.3	17
64	Analysis of Kinetic Behavior of Protein Crystallization in Nanodroplets. <i>Chemistry Letters</i> , 2011, 40, 825-827.	1.3	12
65	Development of automatic combinatorial system for synthesis of nanoparticles using microreactors. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 18, 082010.	0.6	2
66	Investigation of Carrier Collection Capability in Organic Heterostructure with Conductive Polymer Nanofiber. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 080204.	1.5	0
67	Highly photostable lasing in an organic crystal of thiophene/phenylene co-oligomer. , 2011, , .		0
68	1.3 Åµm Solid-State Plastic Laser in Dye-Doped Fluorinated-Polyimide Waveguide. <i>Applied Physics Express</i> , 2010, 3, 092202.	2.4	6
69	Homogeneous and reproducible liposome preparation relying on reassembly in microchannel laminar flow. <i>Chemical Engineering Journal</i> , 2010, 165, 324-327.	12.7	7
70	Patterning on Cyanine-Dye-Doped Conductive Polymer Films by Ink Jet Method. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 010204.	1.5	9
71	Surface-emitting dye-doped polymer laser coupled with stimulated resonant Raman scattering. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	7
72	Lab-on-a-chip flow cytometer employing color-space-time coding. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	22

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73	Combinatorial Synthesis of CdSe Nanoparticles Using Microreactors. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7527-7534.	3.1	59
74	Optically end-pumped plastic waveguide laser with in-line Fabry-Pérot resonator. <i>Optics Express</i> , 2010, 18, 24092.	3.4	5
75	Simultaneous RGB lasing from a single-chip polymer device. <i>Optics Letters</i> , 2010, 35, 2451.	3.3	47
76	Validation of Microfluidic Hybridization Device for Post-PCR Analysis and Clinical Identification of Human Cytomegalovirus (CMV). <i>Advanced Science Letters</i> , 2010, 3, 273-281.	0.2	0
77	Dye-doped polymer microring laser coupled with stimulated resonant Raman scattering. <i>Applied Physics Letters</i> , 2009, 95, 033306.	3.3	15
78	Fiber-to-Fiber Optical Gain of Polymer-Based Amplifier with Self-Written Active Waveguide. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 102406.	1.5	8
79	Amplification properties of Tb (III) green emission in polymeric waveguide doped with Tb-Al nanocluster. <i>Journal of Luminescence</i> , 2009, 129, 526-530.	3.1	6
80	Nonimmobilized Enzyme Kinetics That Rely on Laminar Flow. <i>Journal of Physical Chemistry A</i> , 2009, 113, 165-169.	2.5	9
81	Computational Method for Efficient Screening of Metal Precursors for Nanomaterial Syntheses. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 3389-3397.	3.7	14
82	Device Parameter Analyses of Solid-State Organic Laser Made by Self-Written Active Waveguide Technique. <i>Journal of Lightwave Technology</i> , 2009, 27, 4570-4574.	4.6	10
83	Enhanced thermal stability and mismatch discrimination of mutation-carrying DNA duplexes and their kinetic and thermodynamic properties in microchannel laminar flow. <i>Analytical Biochemistry</i> , 2009, 390, 38-45.	2.4	5
84	Direct circular dichroism spectra measurement of stretching long-strand DNA in a tapering microchannel. <i>Chemical Engineering Journal</i> , 2008, 135, S288-S291.	12.7	2
85	The change of activation energy in microchannel laminar flow as demonstrated by kinetic analysis of the DNA duplex-coil equilibrium. <i>Lab on A Chip</i> , 2008, 8, 1171.	6.0	5
86	Oscillating characteristics of self-written active waveguide laser with in-line cavity. , 2008, , .		0
87	Solid state organic laser emission at 970nm from dye-doped fluorinated-polyimide planar waveguides. <i>Applied Physics Letters</i> , 2008, 93, 023306.	3.3	38
88	Micro-channel Chemiluminescence Analysis Using a Peroxyoxalate Reaction that Works through Liquid-Liquid Interface Collapse under Laminar-Flow Conditions. <i>Analytical Sciences</i> , 2008, 24, 1393-1398.	1.6	3
89	Optical Amplification in Organic Dye-doped Polymeric Channel Waveguide under CW Optical Pumping. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L688.	1.5	8
90	Anisotropic Optical Transitions in [110]-Oriented Semiconductor Quantum Well Studied by Photoreflectance Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 1536-1539.	1.5	0

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91	High-Gain Optical Amplification of Europium-Aluminum (Eu ³⁺ -Al)-Nanocluster-Doped Planar Polymer Waveguides. Japanese Journal of Applied Physics, 2007, 46, L83-L85.	1.5	15
92	High-Gain Optical Amplification of Europium-Aluminum Nanocluster Doped Planar Polymer Waveguides. , 2007, , .		1
93	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
94	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
95	Integration of Optical Pumped Dye Laser on Organic Microflowcytometry Chip. Molecular Crystals and Liquid Crystals, 2007, 463, 131/[413]-140/[422].	0.9	13
96	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
97	Thermodynamic Properties of Duplex DNA in Microchannel Laminar Flow. ChemPhysChem, 2007, 8, 1307-1310.	2.1	7
98	Integration of plastic waveguide lasers on film and its application. , 2006, , .		0
99	Chemiluminescence from singlet oxygen under laminar flow condition in a micro-channel. Analytica Chimica Acta, 2006, 570, 202-206.	5.4	9
100	Imaging of DNA microarray with scanning electrochemical microscopy. Electrochimica Acta, 2006, 51, 2023-2029.	5.2	22
101	Near Infrared Light Amplification in Dye-Doped Polymer Waveguide. Japanese Journal of Applied Physics, 2006, 45, L355-L357.	1.5	5
102	Influence of gravity on a laminar flow in a microbioanalysis system. Measurement Science and Technology, 2006, 17, 3162-3166.	2.6	13
103	Microfluidic device for rapid detection of cytomegalovirus (CMV) by sequence-specific hybridization of PCR-amplified CMV-DNA. , 2006, , .		2
104	Genotyping of the Human Lipoprotein Lipase Gene by Ferrocenylnaphthalene Diimide-based Electrochemical Hybridization Assay. Analytical Sciences, 2005, 21, 1437-1441.	1.6	4
105	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
106	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
107	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
108	Electronic Structure of Ordered Ga _{0.5} In _{0.5} P/GaAs Heterointerface Studied by Raman-Scattering and Photoluminescence-Excitation Measurements. Japanese Journal of Applied Physics, 2005, 44, 7390-7394.	1.5	1

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109	Interface configuration of the two layered laminar flow in a curved microchannel. Chemical Engineering Journal, 2004, 101, 367-372.	12.7	59
110	Microfluidic system for DNA sequence detection. Chemical Engineering Journal, 2004, 101, 157-161.	12.7	6
111	Direct observation of long-strand DNA conformational changing in microchannel flow and microfluidic hybridization assay. Analytical Biochemistry, 2004, 332, 274-279.	2.4	26
112	Differential regulation of chemical reactions in a microchannel reaction system. New Journal of Chemistry, 2004, 28, 1622.	2.8	12
113	Sequence-selective DNA detection using multiple laminar streams: A novel microfluidic analysis method. Lab on A Chip, 2004, 4, 1.	6.0	31
114	Peak Formation Due to Chemiluminescence Reaction through the Collapse of Laminar Flow Liquid-Liquid Interface in a Microreactor. Chemistry Letters, 2004, 33, 1178-1179.	1.3	6
115	Direct Observation of Long-strand DNA Stretching in Microchannel Flow. Chemistry Letters, 2004, 33, 628-629.	1.3	20
116	Rapid Micromixing Based on Multilayer Laminar Flows. Journal of Chemical Engineering of Japan, 2004, 37, 1265-1270.	0.6	26
117	Simulation of Laminar Flow Behavior in a Microchannel and Its Three-dimensional Visualization. Kagaku Kogaku Ronbunshu, 2004, 30, 341-345.	0.3	0
118	Development of Sequence-selective DNA Analysis Using Microfluidic Size Separation of Double-stranded DNA. Kagaku Kogaku Ronbunshu, 2004, 30, 169-172.	0.3	1
119	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
120	Ferrocenylnaphthalene Diimide-Based Electrochemical Hybridization Assay for a Heterozygous Deficiency of the Lipoprotein Lipase Gene. Bioconjugate Chemistry, 2002, 13, 1193-1199.	3.6	30
121	Electrochemical analysis of single nucleotide polymorphisms of p53 gene. Talanta, 2002, 56, 829-835.	5.5	47
122	Electrochemical Detection of Nucleic Base Mismatches with Ferrocenyl Naphthalene Diimide. Analytical Biochemistry, 2002, 306, 188-196.	2.4	50
123	Visualization of DNA microarrays by scanning electrochemical microscopy (SECM). Analyst, The, 2001, 126, 1210-1211.	3.5	57
124	Ferrocenyl naphthalene diimide can bind to DNA-RNA hetero duplex: potential use in an electrochemical detection of mRNA expression. Journal of Organometallic Chemistry, 2001, 637-639, 476-483.	1.8	18
125	BASE MUTATION ANALYSIS BY A FERROCENYL NAPHTHALENE DIIMIDE DERIVATIVE. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 1429-1432.	1.1	3
126	Electrochemical Detection of Base Pair Mutation. Chemistry Letters, 2000, 29, 1038-1039.	1.3	12

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127	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
128	Linear electrooptic effect in ordered (Al _{0.5} Ga _{0.5}) _{0.5} In _{0.5} P. Journal of Applied Physics, 1999, 86, 3140-3143.	2.5	0
129	Carrier localization effects in energy up conversion at ordered (Al _{0.5} Ga _{0.5}) _{0.5} In _{0.5} P/GaAs heterointerface. Journal of Applied Physics, 1998, 84, 359-363.	2.5	12
130	Photoluminescence from metastable states in long-range ordered (Al _{0.5} Ga _{0.5}) _{0.5} In _{0.49} P. Physical Review B, 1997, 55, 4411-4416.	3.2	20
131	Direct optical transitions in indirect-gap (Al _{0.5} Ga _{0.5}) _{0.5} In _{0.49} P by atomic ordering. Physical Review B, 1996, 53, 15713-15718.	3.2	20
132	Higher-interband electroreflectance of long-range ordered Ga _{0.5} In _{0.5} P. Physical Review B, 1996, 54, 16714-16718.	3.2	4