# Makoto Fujimaki

List of Publications by Year
in descending order



| 106 | 3,477 | 218677 | 144013 |
|---|---|---|---|
| papers | citations | 26 h-index | 57 g-index |

| 107 | 107 | 107 | 4408 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Toward the development of an optical technique for identifying and imaging white blood cells in whole blood. Japanese Journal of Applied Physics, 2021, 60, 038001. | 1.5 | 0 |
| 2 | Sensitive Detection of C-Reactive Protein by One-Step Method Based on a Waveguide-Mode Sensor. Sensors, 2020, 20, 3195. | 3.8 | 5 |
| 3 | Detection of norovirus-like particles with an external force-assisted near-field illumination biosensor. Japanese Journal of Applied Physics, 2019, 58, 071005. | 1.5 | 2 |
| 4 | Application of a Waveguide-Mode Sensor to Blood Testing for Hepatitis B Virus, Hepatitis C Virus, Human Immunodeficiency Virus and Treponema pallidum Infection. Sensors, 2019, 19, 1729. | 3.8 | 2 |
| 5 | Sensitive typing of reverse ABO blood groups with a waveguide-mode sensor. Journal of Bioscience and Bioengineering, 2018, 126, 131-137. | 2.2 | 5 |
| 6 | Real-Time Online Monitoring for Assessing Removal of Bacteria by Reverse Osmosis. Environmental Science and Technology Letters, 2018, 5, 389-393. | 8.7 | 24 |
| 7 | Selective detection ofEscherichia coliby imaging of the light intensity transmitted through an optical disk. Applied Physics Express, 2018, 11, 037001. | 2.4 | 2 |
| 8 | Proposal of a chip capable of simultaneous excitation of waveguide-mode resonance and surface plasmon resonance for an electro-assisted near-field fluorescence sensor. Japanese Journal of Applied Physics, 2018, 57, 122002. | 1.5 | 0 |
| 9 | Fluorescence imaging of Escherichia coli on a rotating optical disk. Japanese Journal of Applied Physics, 2018, 57, 088003. | 1.5 | 2 |
| 10 | Development of a dielectrophoresis-assisted surface plasmon resonance fluorescence biosensor for detection of bacteria. Japanese Journal of Applied Physics, 2018, 57, 057001. | 1.5 | 4 |
| 11 | Development of a TiO<sub>2</sub>/SiO<sub>2</sub> waveguide-mode chip for an ultraviolet near-field fluorescence sensor. Optics Express, 2018, 26, 6796. | 3.4 | 1 |
| 12 | Detection of antibodies against hepatitis B virus surface antigen and hepatitis C virus core antigen in plasma with a waveguide-mode sensor. Journal of Bioscience and Bioengineering, 2017, 123, 760-764. | 2.2 | 8 |
| 13 | Design of a sedimentation hole in a microfluidic channel to remove blood cells from diluted whole blood. Japanese Journal of Applied Physics, 2017, 56, 037201. | 1.5 | 8 |
| 14 | Blue-laser scanned imaging system using positioning marks formed on an optical disk substrate. Japanese Journal of Applied Physics, 2017, 56, 058003. | 1.5 | 3 |
| 15 | Detection of norovirus virus-like particles using a surface plasmon resonance-assisted fluoroimmunosensor optimized for quantum dot fluorescent labels. Biosensors and Bioelectronics, 2017, 93, 260-266. | 10.1 | 70 |
| 16 | Dielectrophoresis-assisted SPRF illumination biosensor for selective detection of biological substances. , 2017, , . | | 0 |
| 17 | Optimization of a waveguide-mode sensing chip for an ultraviolet near-field illumination biosensor. Optics Express, 2017, 25, 26011. | 3.4 | 4 |
| 18 | Carbon Nanotubes as Fluorescent Labels for Surface Plasmon Resonance-Assisted Fluoroimmunoassay. Sensors, 2017, 17, 2569. | 3.8 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Detection of Extremely Low Concentrations of Biological Substances Using Near-Field Illumination. Scientific Reports, 2016, 6, 39241. | 3.3 | 12 |
| 20 | Rapid detection of hemagglutination using restrictive microfluidic channels equipped with waveguide-mode sensors. Japanese Journal of Applied Physics, 2016, 55, 027002. | 1.5 | 7 |
| 21 | A Monitoring Method of Additives in a Copper Sulfate Plating Solution Using a Near-Field Optical Sensor. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2016, 67, 575-580. | 0.2 | 0 |
| 22 | Optical-disk-based imaging system to be used as an optical microscope. Japanese Journal of Applied Physics, 2016, 55, 078002. | 1.5 | 3 |
| 23 | Sensor chip design for increasing surface-plasmon-assisted fluorescence enhancement of the V-trench biosensor. Japanese Journal of Applied Physics, 2016, 55, 067001. | 1.5 | 4 |
| 24 | Microfluidic chips for forward blood typing performed with a multichannel waveguide-mode sensor. Sensing and Bio-Sensing Research, 2016, 7, 121-126. | 4.2 | 20 |
| 25 | Hemagglutination detection for blood typing based on waveguide-mode sensors. Sensing and Bio-Sensing Research, 2015, 3, 59-64. | 4.2 | 13 |
| 26 | Parallel-incidence-type waveguide-mode sensor with spectral-readout setup. Optics Express, 2015, 23, 10925. | 3.4 | 11 |
| 27 | Development of a Plasma Separation System for a Portable Blood Test Device. IEEJ Transactions on Sensors and Micromachines, 2015, 135, 152-157. | 0.1 | 1 |
| 28 | Detection of influenza viruses with the waveguide mode sensor. Synthesiology, 2015, 8, 97-107. | 0.2 | 0 |
| 29 | Microfluidic sedimentation system for separation of plasma from whole blood. , 2014, , . | | 4 |
| 30 | Generation of Anti-Influenza Aptamers Using the Systematic Evolution of Ligands by Exponential Enrichment for Sensing Applications. Langmuir, 2013, 29, 15107-15115. | 3.5 | 85 |
| 31 | An angular fluidic channel for prism-free surface-plasmon-assisted fluorescence capturing. Nature Communications, 2013, 4, 2855. | 12.8 | 73 |
| 32 | Neu5Acî±2,6Gal and Neu5Acî±2,3Gal receptor specificities on influenza viruses determined by a waveguide-mode sensor. Acta Biomaterialia, 2013, 9, 5080-5087. | 8.3 | 34 |
| 33 | A high-performance waveguide-mode biosensor for detection of factor IX using PEG-based blocking agents to suppress non-specific binding and improve sensitivity. Analyst, The, 2013, 138, 2863. | 3.5 | 123 |
| 34 | Palmtop waveguide-mode sensor: Comparison of sensitivity and subtyping of influenza viruses with SPR, ELISA and Immunochromatography. , 2013, , . | | 0 |
| 35 | Design and Fabrication of Biosensing Interface for Waveguide-Mode Sensor. Langmuir, 2013, 29, 13111-13120. | 3.5 | 21 |
| 36 | Detection and Two-Dimensional Imaging ofEscherichia coliAttached to an Optical Disk. Japanese Journal of Applied Physics, 2013, 52, 108004. | 1.5 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Fluorescence enhancement by a SiO2-based monolithic waveguide structure for biomolecular detection. Journal of Applied Physics, 2013, 113, 143103. | 2.5 | 5 |
| 38 | Observations of Immuno-Gold Conjugates on Influenza Viruses Using Waveguide-Mode Sensors. PLoS ONE, 2013, 8, e69121. | 2.5 | 50 |
| 39 | Evaluation of Anti-A/Udorn/307/1972 Antibody Specificity to Influenza A/H3N2 Viruses Using an Evanescent-Field Coupled Waveguide-Mode Sensor. PLoS ONE, 2013, 8, e81396. | 2.5 | 43 |
| 40 | Detection of Influenza Viruses Attached to an Optical Disk. Journal of Biomaterials and Nanobiotechnology, 2013, 04, 145-150. | 0.5 | 9 |
| 41 | Waveguide-Mode Sensors as Aptasensors. Sensors, 2012, 12, 2136-2151. | 3.8 | 44 |
| 42 | Surface functionalization chemistries on highly sensitive silica-based sensor chips. Analyst, The, 2012, 137, 3520. | 3.5 | 39 |
| 43 | A study of the critical factor determining the size of etched latent tracks formed on SiO2 glass by swift-Cl-ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2012, 272, 1-4. | 1.4 | 1 |
| 44 | Shape-sensitive reflectance by nanostructured metal attached on an optical waveguide-mode sensor. Nanotechnology, 2011, 22, 245503. | 2.6 | 5 |
| 45 | Optimal design of a spectral readout type planar waveguide-mode sensor with a monolithic structure. Optics Express, 2011, 19, 20205. | 3.4 | 17 |
| 46 | Signal changes for dye-complexed biomolecular interactions on waveguide-sensor chips. Sensors and Actuators B: Chemical, 2011, 155, 239-244. | 7.8 | 13 |
| 47 | Size control of nanopores formed on SiO2 glass by swift-heavy-ion irradiation and its application to highly sensitive biomolecular detection. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, . | 2.1 | 2 |
| 48 | Evaluation of nucleic acid duplex formation on gold over layers in biosensor fabricated using Czochralski-grown single-crystal silicon substrate. Analytical and Bioanalytical Chemistry, 2010, 398, 751-758. | 3.7 | 23 |
| 49 | Resist-less patterning on SiO2 by combination of X-ray exposure and vapor HF etching. Microsystem Technologies, 2010, 16, 1339-1346. | 2.0 | 2 |
| 50 | Optimization of silica surface with nanosize holes for immobilization of biomolecules and analysis of their interactions. Analytica Chimica Acta, 2010, 680, 72-78. | 5.4 | 7 |
| 51 | Detection of colored nanomaterials using evanescent field-based waveguide sensors. Optics Express, 2010, 18, 15732. | 3.4 | 46 |
| 52 | Detection of influenza viruses by a waveguide-mode sensor. Analytical Methods, 2010, 2, 1880. | 2.7 | 32 |
| 53 | Monitoring biological interactions using perforated evanescent-field-coupled waveguide-mode nanobiosensors. Nucleic Acids Symposium Series, 2009, 53, 93-94. | 0.3 | 2 |
| 54 | Optical Fiber Depolarizer Using Birefringence Induced by Proton Implantation. Japanese Journal of Applied Physics, 2009, 48, 032404. | 1.5 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Solution Conductivity as a Key Factor for Thin Silica Coating on Colloidal Silver. Japanese Journal of Applied Physics, 2009, 48, 06FE04. | 1.5 | 0 |
| 56 | Control of Coupling Ratio by Proton Implantation for a Directional Coupler of Planar-Lightwave-Circuit Type. Japanese Journal of Applied Physics, 2009, 48, 102405. | 1.5 | 6 |
| 57 | Mechanism of elongation of gold or silver nanoparticles in silica by irradiation with swift heavy ions. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 941-943. | 1.4 | 15 |
| 58 | Monitoring surface-assisted biomolecular assembly by means of evanescent-field-coupled waveguide-mode nanobiosensors. Analytical and Bioanalytical Chemistry, 2009, 394, 481-488. | 3.7 | 17 |
| 59 | Plasmonic activity on gold nanoparticles embedded in nanopores formed in a surface layer of silica glass by swift-heavy-ion irradiation. Nanotechnology, 2009, 20, 475306. | 2.6 | 4 |
| 60 | Development of high-sensitivity molecular adsorption detection sensors. Synthesiology, 2009, 2, 142-153. | 0.2 | 10 |
| 61 | Title is missing!. Synthesiology, 2009, 2, 147-158. | 0.2 | 1 |
| 62 | Reduction in polarization dependent loss of a planar lightwave circuit by ion-implantation-induced birefringence. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4762-4765. | 1.4 | 4 |
| 63 | Biomolecular sensors utilizing waveguide modes excited by evanescent fields. Journal of Microscopy, 2008, 229, 320-326. | 1.8 | 16 |
| 64 | A Plasmonic Photocatalyst Consisting of Silver Nanoparticles Embedded in Titanium Dioxide. Journal of the American Chemical Society, 2008, 130, 1676-1680. | 13.7 | 1,422 |
| 65 | Influence of Nanometric Holes on the Sensitivity of a Waveguide-Mode Sensor: Label-Free Nanosensor for the Analysis of RNA Aptamerâ"Ligand Interactions. Analytical Chemistry, 2008, 80, 6602-6609. | 6.5 | 53 |
| 66 | Silica-based monolithic sensing plates for waveguide-mode sensors. Optics Express, 2008, 16, 6408. | 3.4 | 54 |
| 67 | The design of evanescent-field-coupled waveguide-mode sensors. Nanotechnology, 2008, 19, 095503. | 2.6 | 18 |
| 68 | Fabrication of Inert Silver Nanoparticles with a Thin Silica Coating. Japanese Journal of Applied Physics, 2008, 47, 8641-8643. | 1.5 | 11 |
| 69 | Elongation of gold nanoparticles in silica glass by irradiation with swift heavy ions. Physical Review B, 2008, 78, . | 3.2 | 81 |
| 70 | Surface Enhanced Raman Scattering of Silver Nanopartcles Formed from Silver Oxide Films with Different Composition Ratios. Japanese Journal of Applied Physics, 2007, 46, 1220-1223. | 1.5 | 2 |
| 71 | Surface-Enhanced Raman Scattering by Hemi-Ellipsoidal Ag Nanoparticles Generated from Silver-Oxide Thin Films. Japanese Journal of Applied Physics, 2007, 46, L1080-L1082. | 1.5 | 2 |
| 72 | High sensitivity sensors made of perforated waveguides. Optics Express, 2007, 15, 2592. | 3.4 | 63 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Control of the properties of directional couplers using proton irradiation. Nuclear Instruments & Methods in Physics Research B, 2007, 264, 267-271. | 1.4 | 4 |
| 74 | Birefringence in optical fibers formed by proton implantation. Nuclear Instruments & Methods in Physics Research B, 2007, 265, 490-494. | 1.4 | 11 |
| 75 | Nanoscale pore fabrication for high sensitivity waveguide-mode biosensors. Microelectronic Engineering, 2007, 84, 1685-1689. | 2.4 | 15 |
| 76 | Structure of latent tracks in rutile single crystal of titanium dioxide induced by swift heavy ions. Journal of Applied Physics, 2006, 100, 044308. | 2.5 | 45 |
| 77 | Surface-enhanced Raman scattering from Ag nanoparticles formed by visible laser irradiation of thermally annealed AgOx thin films. Journal of Applied Physics, 2006, 100, 074303. | 2.5 | 21 |
| 78 | Molecular detection in a micro channel using silver-oxide thin film. Microelectronic Engineering, 2006, 83, 1626-1629. | 2.4 | 5 |
| 79 | Substrate and laser power dependence of surface-enhanced Raman scattering from a silver oxide film. Nanotechnology, 2006, 17, 1717-1721. | 2.6 | 12 |
| 80 | Photonic crystals of titanium dioxide fabricated by swift heavy ions. Radiation Measurements, 2005, 40, 722-729. | 1.4 | 12 |
| 81 | High Sensitive Optical Detection of Bio-Chemicals onto a Silicon Oxide Surface Based on Waveguide Mode. Materials Research Society Symposia Proceedings, 2005, 900, 1. | 0.1 | 1 |
| 82 | Fabrication of two- and three-dimensional photonic crystals of titania with submicrometer resolution by deep x-ray lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 934. | 1.6 | 25 |
| 83 | Photonic crystal structures in titanium dioxide (TiO2) and their optimal design. Optics Express, 2005, 13, 1486. | 3.4 | 50 |
| 84 | Development of a Sub-micron Processing Method with Ion Implantation. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 69-70. | 0.2 | 1 |
| 85 | Ultraviolet photon-induced absorption bands and paramagnetic centers in Ge and Sn co-doped SiO2 glass. Journal of Non-Crystalline Solids, 2003, 318, 87-94. | 3.1 | 3 |
| 86 | Three-Dimensional Lithography for Rutile TiO2 Single Crystals using Swift Heavy Ions. Materials Research Society Symposia Proceedings, 2003, 797, 75. | 0.1 | 0 |
| 87 | Structural change induced inTiO2by swift heavy ions and its application to three-dimensional lithography. Physical Review B, 2003, 68, . | 3.2 | 42 |
| 88 | Photo-induced refractive index change in hydrogenated amorphous silicon oxynitride. Journal of Applied Physics, 2002, 91, 6350. | 2.5 | 10 |
| 89 | Visible electroluminescence in hydrogenated amorphous silicon oxynitride. Journal of Applied Physics, 2001, 90, 2216-2220. | 2.5 | 19 |
| 90 | Origin of photoluminescence around 2.6â€“2.9 eV in silicon oxynitride. Applied Physics Letters, 2001, 79, 1995-1997. | 3.3 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Application of Infrared Attenuated Total Reflection Spectroscopy to In Situ Analysis of Atheromatous Plaques in Aorta. Japanese Journal of Applied Physics, 2000, 39, L490-L492. | 1.5 | 5 |
| 92 | Photoluminescence Analysis of Plasma-deposited Oxygen-rich Silicon Oxynitride Films. Japanese Journal of Applied Physics, 2000, 39, 6587-6593. | 1.5 | 12 |
| 93 | Time-resolved photoluminescence study of hydrogenated amorphous silicon nitride. Physical Review B, 2000, 62, 1532-1535. | 3.2 | 26 |
| 94 | Ion-implantation-induced densification in silica-based glass for fabrication of optical fiber gratings. Journal of Applied Physics, 2000, 88, 5534-5537. | 2.5 | 32 |
| 95 | Structures and Optical Properties of Defects Correlated with Photo-Induced Refractive Index Changes in Ge-Doped SiO<sub>2</sub> Glass. Defect and Diffusion Forum, 2000, 177-178, 43-50. | 0.4 | 1 |
| 96 | Fabrication of long-period optical fiber gratings by use of ion implantation. Optics Letters, 2000, 25, 88. | 3.3 | 86 |
| 97 | Effect of Ozone Annealing on the Charge Trapping Property of Ta2O5â€“Si3N4â€“p-Si Capacitor Grown by Low-pressure Chemical Vapor Deposition. Japanese Journal of Applied Physics, 1999, 38, 6791-6796. | 1.5 | 14 |
| 98 | Paramagnetic centres induced in Ge-doped glass with UV irradiation. Journal of Physics Condensed Matter, 1999, 11, 2589-2594. | 1.8 | 12 |
| 99 | Effect of annealing on Ge-doped SiO2 thin films. Journal of Applied Physics, 1999, 86, 5270-5273. | 2.5 | 11 |
| 100 | Structural changes induced by KrF excimer laser photons inH2-loaded Ge-dopedSiO2glass. Physical Review B, 1999, 60, 4682-4687. | 3.2 | 59 |
| 101 | Temperature dependence of the lifetime of 4.3-eV photoluminescence in oxygen-deficient amorphousSiO2. Physical Review B, 1999, 59, 1590-1593. | 3.2 | 20 |
| 102 | Direct deposition of a blanket tungsten layer on SiO2 by preexposure of helium plasma. Journal of Applied Physics, 1999, 85, 8423-8426. | 2.5 | 4 |
| 103 | Structures and generation mechanisms of paramagnetic centers and absorption bands responsible for Ge-dopedSiO2optical-fiber gratings. Physical Review B, 1998, 57, 3920-3926. | 3.2 | 85 |
| 104 | Energy states of Ge-doped SiO2glass estimated through absorption and photoluminescence. Journal of Applied Physics, 1997, 81, 1042-1046. | 2.5 | 45 |
| 105 | Excited-state absorption measurement in Ge-doped SiO2 glass. Journal of Applied Physics, 1997, 81, 2913-2915. | 2.5 | 6 |
| 106 | Laser-power dependence of absorption changes in Ge-dopedSiO2glass induced by a KrF excimer laser. Physical Review B, 1996, 53, 9859-9862. | 3.2 | 26 |