

# Keiko Tawa

## List of Publications by Year in descending order

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97  
papers

2,443  
citations

257450

24  
h-index

206112

48  
g-index

98  
all docs

98  
docs citations

98  
times ranked

2764  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and thermochromic solid-state phase transition of poly (3-alkylthiophene). Journal of Polymer Science, Part B: Polymer Physics, 1991, 29, 1223-1233.	2.1	294
2	Silver Nanoplates with Special Shapes: Controlled Synthesis and Their Surface Plasmon Resonance and Surface-Enhanced Raman Scattering Properties. Chemistry of Materials, 2006, 18, 4894-4901.	6.7	254
3	Molecular Design for Organic Nonlinear Optics: Polarizability and Hyperpolarizabilities of Furan Homologues Investigated by Ab Initio Molecular Orbital Method. Journal of Physical Chemistry A, 2000, 104, 4723-4734.	2.5	114
4	Mismatching base-pair dependence of the kinetics of DNA-DNA hybridization studied by surface plasmon fluorescence spectroscopy. Nucleic Acids Research, 2004, 32, 2372-2377.	14.5	111
5	Oriented Attachment-Based Assembly of Dendritic Silver Nanostructures at Room Temperature. Journal of Physical Chemistry B, 2006, 110, 23234-23241.	2.6	110
6	Substrate-Supported Phospholipid Membranes Studied by Surface Plasmon Resonance and Surface Plasmon Fluorescence Spectroscopy. Biophysical Journal, 2005, 89, 2750-2758.	0.5	96
7	Optical microscopic observation of fluorescence enhanced by grating-coupled surface plasmon resonance. Optics Express, 2008, 16, 9781.	3.4	92
8	Designed Fabrication of Ordered Porous Au/Ag Nanostructured Films for Surface-Enhanced Raman Scattering Substrates. Langmuir, 2006, 22, 2605-2609.	3.5	86
9	Tailored Plasmonic Gratings for Enhanced Fluorescence Detection and Microscopic Imaging. Advanced Functional Materials, 2010, 20, 546-553.	14.9	69
10	Enhanced Fluorescence Microscopic Imaging by Plasmonic Nanostructures: From a 1D Grating to a 2D Nanohole Array. Advanced Functional Materials, 2010, 20, 945-950.	14.9	68
11	Matching base-pair number dependence of the kinetics of DNA-DNA hybridization studied by surface plasmon fluorescence spectroscopy. Biosensors and Bioelectronics, 2005, 21, 322-329.	10.1	63
12	Sensitive Detection of a Tumor Marker, $\alpha$ -Fetoprotein, with a Sandwich Assay on a Plasmonic Chip. Analytical Chemistry, 2015, 87, 3871-3876.	6.5	62
13	Vesicle Fusion Studied by Surface Plasmon Resonance and Surface Plasmon Fluorescence Spectroscopy. Biophysical Journal, 2006, 91, 1380-1387.	0.5	50
14	Polydopamine Thin Films as Protein Linker Layer for Sensitive Detection of Interleukin-6 by Surface Plasmon Enhanced Fluorescence Spectroscopy. ACS Applied Materials & Interfaces, 2016, 8, 22032-22038.	8.0	50
15	Fluorescence emission control and switching of oxymethylcrowned spirobenzopyrans by metal ion. Tetrahedron, 2004, 60, 6029-6036.	1.9	46
16	Local environment dependence of photoinduced anisotropy observed in azo-dye-doped polymer films. Polymer, 2000, 41, 3235-3242.	3.8	42
17	Application of 300-nm Enhanced Fluorescence on a Plasmonic Chip Modified with a Bispecific Antibody to a Sensitive Immunosensor. ACS Applied Materials & Interfaces, 2013, 5, 8628-8632.	8.0	37
18	Photoinduced Reorientation of Azo Dyes Bonded to Polyurethane Studied by Polarized FT-IR Spectroscopy. Macromolecules, 2001, 34, 8232-8238.	4.8	36

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#	ARTICLE	IF	CITATIONS
37	Chain Dynamics of Polystyrene in High Viscosity Solvents Studied by the Fluorescence Depolarization Method. <i>Polymer Journal</i> , 1994, 26, 199-205.	2.7	17
38	Local Chain Motion of Isotactic and Syndiotactic Poly(methyl methacrylate)s Studied by the Fluorescence Depolarization Method. <i>Macromolecules</i> , 1995, 28, 5012-5016.	4.8	17
39	<i>Macromolecular Chemistry and Physics</i> , 2001, 202, 257-262.	2.2	17
40	Duty ratio-dependent fluorescence enhancement through surface plasmon resonance in Ag-coated gratings. <i>Applied Physics Letters</i> , 2009, 95, 133117.	3.3	17
41	An application of a plasmonic chip with enhanced fluorescence to a simple biosensor with extended dynamic range. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 703-709.	7.8	17
42	Synthesis and nonlinear optical properties of 1,3- and 1,4-disubstituted type of poly(phenyleneethynylene)s containing electron-donor and acceptor group. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 525-532.	2.2	15
43	Optimal Structure of a Plasmonic Chip for Sensitive Bio-Detection with the Grating-Coupled Surface Plasmon-Field Enhanced Fluorescence (GC-SPF). <i>Materials</i> , 2017, 10, 1063.	2.9	14
44	Out-of-Plane Photoreorientation of Azo Dyes in Polymer Thin Films Studied by Surface Plasmon Resonance Spectroscopy. <i>Macromolecules</i> , 2002, 35, 7018-7023.	4.8	13
45	Effect of heavy atom on the second hyperpolarizability of tetrahydrofuran homologs investigated by ab initio molecular orbital method. <i>International Journal of Quantum Chemistry</i> , 1998, 70, 737-743.	2.0	11
46	Surface profile dependence of the photon coupling efficiency and enhanced fluorescence in the grating-coupled surface plasmon resonance. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	11
47	Dual-Color Fluorescence Imaging of EpCAM and EGFR in Breast Cancer Cells with a Bullâ€™s Eye-Type Plasmonic Chip. <i>Sensors</i> , 2017, 17, 2942.	3.8	11
48	Grating Substrates Fabricated by Nanoimprint Lithography for Fluorescence Microscopy. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 06FH17.	1.5	10
49	Surface plasmon-enhanced optical trapping of quantum-dot-conjugated surface molecules on neurons cultured on a plasmonic chip. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 06GN04.	1.5	10
50	Azobenzene-Containing Polyamic Acid with Excellent Langmuirâ€™Blodgettâ€™Kuhn Film Formation Behavior Suitable for All-Optical Switching. <i>Langmuir</i> , 2005, 21, 7036-7043.	3.5	9
51	Sensitive detection of a pseudo-polyrotaxane ultrathin film by SPR and QCM-D methods. <i>Sensors and Actuators B: Chemical</i> , 2009, 138, 126-133.	7.8	9
52	Multi-Color Enhanced Fluorescence Imaging of a Breast Cancer Cell with A Hole-Arrayed Plasmonic Chip. <i>Micromachines</i> , 2020, 11, 604.	2.9	9
53	On the discrepancy between theoretical calculation and experimental observation of second hyperpolarizability of furan homologues. <i>Synthetic Metals</i> , 2000, 115, 185-189.	3.9	8
54	Photoinduced reorientation of azo-dyes covalently linked to a styrene copolymer in bulk state. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 143, 31-38.	3.9	8

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55	Optimization of Metal Quality for Grating Coupled Surface Plasmon Resonance. <i>Physics Procedia</i> , 2013, 48, 179-183.	1.2	7
56	Properties of modified surface for biosensing interface. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 309-316.	9.4	7
57	Direct Visualization of Near-Field Distributions on a Two-Dimensional Plasmonic Chip by Scanning Near-Field Optical Microscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10529-10535.	3.1	7
58	Sensitive Fluorescence Microscopy of Neurons Cultured on a Plasmonic Chip. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FK10.	1.5	7
59	Spontaneous Emission Control of CdSe/ZnS Nanoparticle Monolayer in Polymer Nanosheet Waveguide Assembled on a One-Dimensional Silver Grating Surface. <i>Langmuir</i> , 2012, 28, 2313-2317.	3.5	6
60	Rapid and Sensitive Detection of Brain-Derived Neurotrophic Factor with a Plasmonic Chip. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 06GK01.	1.5	6
61	Fluorescence microscopy imaging of cells with a plasmonic dish integrally molded. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 03DF12.	1.5	6
62	Microscopic Study on Excitation and Emission Enhancement by the Plasmon Mode on a Plasmonic Chip. <i>Sensors</i> , 2020, 20, 6415.	3.8	6
63	Real-time fluorescence measurement of spontaneous activity in a high-density hippocampal network cultivated on a plasmonic dish. <i>Journal of Chemical Physics</i> , 2020, 152, 014706.	3.0	6
64	Nanoantenna effect dependent on the center structure of Bullâ€™s eye-type plasmonic chip. <i>Optics Express</i> , 2022, 30, 7526.	3.4	6
65	Application of Grating Substrate Fabricated by Nanoimprint Lithography to Surface Plasmon Field-Enhanced Fluorescence Microscopy and Study of Its Optimum Structure. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 062002.	1.5	5
66	In situ imaging of micropatterned phospholipid membranes by surface plasmon fluorescence microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 81, 447-451.	5.0	5
67	Sensitive Fluorescence Microscopy of Neurons Cultured on a Plasmonic Chip. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FK10.	1.5	5
68	Photoluminescence characterization of ZnS-AgInS <sub>2</sub> (ZAIS) nanoparticles adsorbed on plasmonic chip studied with fluorescence microscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 367, 347-354.	3.9	5
69	Size effect of metal nanodome arrays on performance of plasmonic biosensor. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SDDF03.	1.5	5
70	Long-term real-time imaging of a voltage sensitive dye in cultured hippocampal neurons using the silver plasmonic dish. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 384, 111949.	3.9	4
71	XAFS study of the complex of an acetylacetonate-based ligand and copper ion. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2011, 71, 293-296.	1.6	3
72	In situ optical and spectroscopic imaging of photochromic cyclization and crystallization of a diarylethene film with optical microscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 356, 397-402.	3.9	3

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73	Two-Photon-Excited Emission of Quantum Dots with a Plasmonic Chip. Journal of Physical Chemistry C, 2020, 124, 16076-16082.	3.1	3
74	Enhanced Single-Photon Emission from Single Quantum Dots Interacting with a One-Dimensional Plasmonic Chip. Journal of Physical Chemistry C, 2022, 126, 5189-5197.	3.1	3
75	Fluorescence and metal-ion recognition properties of acetylacetonone-based ligands. Journal of Environmental Sciences, 2009, 21, S84-S87.	6.1	2
76	Photochemically Induced Crystallization of Proteins Accelerated on Two-Dimensional Gold Gratings. Japanese Journal of Applied Physics, 2012, 51, 06FK09.	1.5	2
77	Thickness dependence of polydopamine thin films on detection sensitivity of surface plasmon-enhanced fluorescence biosensors. Japanese Journal of Applied Physics, 2018, 57, 03EK01.	1.5	2
78	Study on the Mechanism of Diarylethene Crystal Growth by In Situ Microscopy and the Crystal Growth Controlled by an Aluminum Plasmonic Chip. Langmuir, 2018, 34, 4217-4223.	3.5	2
79	Nanoscope Visualization of Fluorescence Excitation Probability on Two-dimensional Periodical Gold Nanohole Arrays. Chemistry Letters, 2019, 48, 1119-1121.	1.3	2
80	Grating Coupled Surface Plasmon Resonance Enhanced Fluorescence and Its Application for Cell Observation. Materials Research Society Symposia Proceedings, 2009, 1208, 1.	0.1	1
81	The Detection of Antigen-Antibody Recognition on an Array Chip by Surface Plasmon Field-Enhanced Fluorescence Imaging (SPFI). Transactions of the Materials Research Society of Japan, 2009, 34, 213-216.	0.2	1
82	Detection of Brain-Derived Neurotrophic Factor (BDNF) with a Sandwich Assay on a Plasmonic Chip. Transactions of the Materials Research Society of Japan, 2014, 39, 361-364.	0.2	1
83	Catechol-Functionalized Polysiloxane Nanocoating for Surface Enhanced Raman Scattering on a Grating Surface. International Journal of the Society of Materials Engineering for Resources, 2018, 23, 84-87.	0.1	1
84	Local Chain Dynamics of Several Polymers in $\hat{r}$ Solvents Studied by the Fluorescence Depolarization Method. Nihon Reorji Gakkaishi, 1997, 25, 203-205.	1.0	1
85	Bio-interface Detection by Surface Plasmon-field Enhanced Fluorescence Spectroscopy (SPFS). Hyomen Kagaku, 2007, 28, 724-727.	0.0	1
86	Polarized light-induced anisotropy of azo dyes studied by polarized FTIR spectroscopy. , 1998, , .		0
87	Polarized light-induced anisotropy depending on polymer matrices studied by polarized ftir spectroscopy. Macromolecular Symposia, 1999, 137, 147-154.	0.7	0
88	Polarized-Light Induced Orientation of Azo-Dyes in a Polymer Matrix Studied by Polarized Spectroscopy.. Kobunshi Ronbunshu, 2002, 59, 499-509.	0.2	0
89	Multicolor fluorescence microscopic imaging of cancer cells on the plasmonic chip (Presentation) Tj ETQq1 1 0.784314 rgBT /Overloc		
90	Interleukin-6 Detection with a Plasmonic Chip. Journal of Molecular and Engineering Materials, 2016, 04, 1640009.	1.8	0

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91	Plasmonic chip enhanced fluorescence biosensor in the back illumination system. Electronics and Communications in Japan, 2020, 103, 9-14.	0.5	0
92	100-Fold Enhancement of Fluorescence Imaging by Two-Dimensional-Grating-Coupled Surface Plasmon Resonance. , 2009, , .		0
93	Photochemically Induced Crystallization of Proteins Accelerated on Two-Dimensional Gold Gratings. Japanese Journal of Applied Physics, 2012, 51, 06FK09.	1.5	0
94	Clear Images of Neuronal Cells Cultured on a Plasmonic Dish Observed with the Inverted Fluorescence Microscope. , 2013, , .		0
95	Sensitive detection of Interleukin-6 (IL-6) on the plasmonic chip by Grating Coupled-Surface Plasmon-field enhanced Fluorescence Imaging. , 2013, , .		0
96	Sensitive Bio-Detection and Bioimaging by the Grating-Coupled Surface Plasmon-Field Enhanced Fluorescence Spectroscopy. Journal of the Japan Society of Colour Material, 2018, 91, 137-141.	0.1	0
97	Crystallization Control of the Photoresponsible Diarylethene Film with an Aluminum Plasmonic Chip. , 2020, , 581-593.		0