

# Naoki Matsuda

## List of Publications by Year in descending order

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106  
papers

2,484  
citations

279798

23  
h-index

214800

47  
g-index

112  
all docs

112  
docs citations

112  
times ranked

2655  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge transfer resonance Raman process in surface-enhanced Raman scattering from p-aminothiophenol adsorbed on silver: Herzberg-Teller contribution. <i>The Journal of Physical Chemistry</i> , 1994, 98, 12702-12707.	2.9	764
2	Characterization of Gold Nanoparticles Synthesized Using Sucrose by Seeding Formation in the Solid Phase and Seeding Growth in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7006-7011.	2.6	111
3	Insertion of a Two-Dimensional Cavity into a Self-Assembled Colloidal Crystal. <i>Langmuir</i> , 2003, 19, 4465-4468.	3.5	106
4	Some characteristics of polyatomic ion spectra in inductively coupled plasma mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1994, 49, 955-974.	2.9	81
5	Assessment of Internal Exposure Doses in Fukushima by a Whole Body Counter Within One Month after the Nuclear Power Plant Accident. <i>Radiation Research</i> , 2013, 179, 663-668.	1.5	77
6	A design for improving the sensitivity of a Mach-Zehnder interferometer to chemical and biological measurands. <i>Sensors and Actuators B: Chemical</i> , 2002, 81, 254-258.	7.8	65
7	Wiring Electrons of Cytochrome c with Silver Nanoparticles in Layered Films. <i>ChemPhysChem</i> , 2003, 4, 1364-1366.	2.1	61
8	Surface-Enhanced Infrared and Raman Studies of Electrochemical Reduction of Self-Assembled Monolayers Formed from p-Nitrohiophenol at Silver. <i>Chemistry Letters</i> , 1992, 21, 1385-1388.	1.3	45
9	A Slab-Optical-Waveguide Absorption Spectroscopy of Langmuir-Blodgett Films with a White Light Excitation Source. <i>Chemistry Letters</i> , 1995, 24, 437-438.	1.3	45
10	Optical waveguide spectrometer based on thin-film glass plates. <i>Optics Letters</i> , 2002, 27, 2001.	3.3	45
11	Adsorption Behavior of Cytochrome c, Myoglobin and Hemoglobin in a Quartz Surface Probed Using Slab Optical Waveguide (SOWG) Spectroscopy. <i>Analytical Sciences</i> , 2003, 19, 199-204.	1.6	44
12	Composite optical waveguide composed of a tapered film of bromothymol blue evaporated onto a potassium ion-exchanged waveguide and its application as a guided wave absorption-based ammonia-gas sensor. <i>Optics Letters</i> , 2001, 26, 629.	3.3	42
13	Absorption Spectra of Rhodamine 6G by Slab Optical Waveguide Spectroscopy. <i>Chemistry Letters</i> , 1996, 25, 105-106.	1.3	39
14	Prism-coupled multimode waveguide refractometer. <i>Optics Letters</i> , 2002, 27, 689.	3.3	39
15	Spectroelectrochemical studies on surface immobilized cytochrome c on ITO electrode by slab optical waveguide spectroscopy. <i>Thin Solid Films</i> , 2003, 438-439, 403-406.	1.8	39
16	A Kinetic Study of Cytochrome c Adsorption to Hydrophilic Glass by Broad-Band, Time-Resolved Optical Waveguide Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6873-6875.	2.6	36
17	Pervaporation and vapor permeation characteristics of BTESE-derived organosilica membranes and their long-term stability in a high-water-content IPA/water mixture. <i>Journal of Membrane Science</i> , 2016, 498, 336-344.	8.2	36
18	Radiocesium concentrations in wild mushrooms collected in Kawauchi Village after the accident at the Fukushima Daiichi Nuclear Power Plant. <i>PeerJ</i> , 2015, 3, e1427.	2.0	33

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19	Surface-Assisted Photoinduced Reduction of p-Nitrothiophenol Self-Assembled Monolayer Adsorbed on a Smooth Silver Electrode. <i>Chemistry Letters</i> , 1995, 24, 145-146.	1.3	30
20	In Situ Observation of Adsorbed Heptylviologen Cation Radicals by Slab Optical Waveguide Spectroscopy Utilizing Indium-tin-oxide Electrode. <i>Chemistry Letters</i> , 1998, 27, 125-126.	1.3	30
21	Experimental evidence of the reversibility of the first stage of protein adsorption at a hydrophobic quartz surface near the isoelectric point. <i>Surface and Interface Analysis</i> , 2003, 35, 432-436.	1.8	26
22	Character impact odorants from wild mushroom ( <i>Lactarius hatsudake</i> ) used in Japanese traditional food. <i>Flavour and Fragrance Journal</i> , 2010, 25, 197-201.	2.6	26
23	Simultaneous determination of methylene blue and new methylene blue by slab optical waveguide spectroscopy and artificial neural networks. <i>Analytica Chimica Acta</i> , 2003, 487, 109-116.	5.4	25
24	Chemical composition, aroma evaluation, and inhibitory activity towards acetylcholinesterase of essential oils from <i>Gynura bicolor</i> DC.. <i>Journal of Natural Medicines</i> , 2016, 70, 282-289.	2.3	25
25	Synthesis of multiwall carbon nanotube-supported platinum catalysts by solution plasma processing for oxygen reduction in polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2014, 146, 73-78.	5.2	23
26	UV-visible Slab Optical Waveguide Spectroscopy of Cytochrome c Adsorbed on a Liquid-Solid Interface. <i>Chemistry Letters</i> , 1999, 28, 31-32.	1.3	22
27	In situ monitoring of metal nanoparticle self-assembly on protein-functionalized glass by broadband optical waveguide spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2004, 271, 249-253.	9.4	22
28	In Situ Investigation of Coadsorption of Myoglobin and Methylene Blue to Hydrophilic Glass by Broadband Time-Resolved Optical Waveguide Spectroscopy. <i>Langmuir</i> , 2004, 20, 778-784.	3.5	21
29	Cancer mortality in residents of the terrain-shielded area exposed to fallout from the Nagasaki atomic bombing. <i>Journal of Radiation Research</i> , 2018, 59, 1-9.	1.6	21
30	In Situ Absorption Spectra and Adsorbed Species of Methylene Blue on Glass/Water Interfaces by Slab Optical Waveguide Spectroscopy. <i>Applied Spectroscopy</i> , 2003, 57, 100-103.	2.2	20
31	Characteristic Flavor of Volatile Oil from Dried Fruiting Bodies of <i>Herichium erinaceus</i> (Bull.) Tj ETQq1 1 0.784314 rgBT/Overlo 2.7 20		
32	In situ observation of absorption spectra and adsorbed species of methylene blue on indium-tin-oxide electrode by slab optical waveguide spectroscopy. <i>Thin Solid Films</i> , 2003, 445, 313-316.	1.8	19
33	Probing of spatial orientational correlations between chromophores in polymer films by femtosecond hyper-Rayleigh scattering. <i>Chemical Physics Letters</i> , 1996, 253, 135-140.	2.6	18
34	A Study of Molecular Adsorption of Bromothymol Blue by Optical Waveguide Spectroscopy. <i>Langmuir</i> , 2003, 19, 214-217.	3.5	17
35	Study of Initial Adsorption Process of Hemoglobin to Glass Surface by Using Time-Resolved Slab Optical Waveguide(SOWG) Spectroscopy. <i>Chemistry Letters</i> , 2003, 32, 270-271.	1.3	17
36	Development of a New Chemiluminescent Enzyme Immunoassay Using a Two-Step Sandwich Method for Measuring Aldosterone Concentrations. <i>Diagnostics</i> , 2021, 11, 433.	2.6	17

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37	Regulation of pairing between broken DNA-containing chromatin regions by Ku80, DNA-PKcs, ATM, and 53BP1. <i>Scientific Reports</i> , 2017, 7, 41812.	3.3	15
38	Impact of Sleep-Associated Neuromodulators and Repetitive Low-Frequency Stimulation on Human iPSC-Derived Neurons. <i>Frontiers in Neuroscience</i> , 2019, 13, 554.	2.8	15
39	Comparison between optical nonlinearity relaxation times from coherent second-harmonic generation and from incoherent hyper-Rayleigh scattering. <i>Applied Physics Letters</i> , 1996, 69, 4145-4147.	3.3	14
40	Potential structure of discharge plasma inside liquid directly measured by an electrostatic probe. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	14
41	Synthesis of Pt nanoparticles as catalysts of oxygen reduction with microbubble-assisted low-voltage and low-frequency solution plasma processing. <i>Journal of Power Sources</i> , 2018, 382, 69-76.	7.8	14
42	Signal enhancement effect of halogen matrix in electrothermal vaporization-inductively coupled plasma-mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1996, 51, 1551-1565.	2.9	13
43	Time-Resolved Optical Waveguide Spectroscopy for Studying Protein Adsorption Kinetics. <i>Materials Transactions</i> , 2004, 45, 1015-1018.	1.2	13
44	Characteristic Odor Components of Essential Oil from Dried Fruiting Bodies of Golden Oyster Mushroom ( <i>Pleurotus citrinopileatus</i> ). <i>Journal of Essential Oil Research</i> , 2011, 23, 58-63.	2.7	12
45	<i>In Vitro</i> Pain Assay Using Human iPSC-Derived Sensory Neurons and Microelectrode Array. <i>Toxicological Sciences</i> , 2022, 188, 131-141.	3.1	12
46	Study of domain formation and relaxation in thin polymeric films by femtosecond hyper-Rayleigh scattering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998, 15, 369.	2.1	11
47	Study of adsorption of methylene blue and new methylene blue in liquid/solid interface by slab optical waveguide spectroscopy. <i>Talanta</i> , 2005, 65, 1143-1148.	5.5	11
48	Photothermal Signal Detection on the Optical Waveguide. <i>Chemistry Letters</i> , 1997, 26, 583-584.	1.3	10
49	Direct Electrochemistry of Hemoglobin Molecules Adsorbed on Bare Indium Tin Oxide Electrode Surfaces. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 1333.	1.5	10
50	Study of adsorption behaviors of meso-tetrakis (4-N-Methylpyridyl) porphine p-Toluenesulfonate at indium-tin-oxide electrode/solution interface by in-situ internal reflection spectroscopy and cyclic voltammetry. <i>Thin Solid Films</i> , 2009, 517, 2905-2911.	1.8	10
51	Evaluation of Biofuel Cells with Hemoglobin as Cathodic Electrocatalysts for Hydrogen Peroxide Reduction on Bare Indium-Tin-Oxide Electrodes. <i>Energies</i> , 2014, 7, 1-12.	3.1	10
52	Preparation of Au nano-particle dispersed water solution without surfactant for surface-enhanced Raman scattering platform. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 653, 137-143.	0.9	10
53	Colloidal gold submonolayer-coated thin-film glass plates for waveguide-coupled surface plasmon resonance sensors. <i>Applied Optics</i> , 2003, 42, 4522.	2.1	9
54	In situ observation of the initial adsorption process of heptylviologen cation radicals by slab optical waveguide spectroscopy synchronized with electrode potential modulation methods. <i>Journal of Electroanalytical Chemistry</i> , 2005, 578, 137-142.	3.8	9

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55	Identification of adsorption states of heptyl viologen cation radicals in a thin deposition layer by slab optical waveguide spectroscopy utilizing indium-tin-oxide electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2006, 595, 87-93.	3.8	9
56	Spectropolarimetric interferometer based on single-mode glass waveguides. <i>Optics Express</i> , 2008, 16, 2245.	3.4	9
57	Improvement of solvent affinity for graphene derivatives by solution plasma process. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 01AD05.	1.5	9
58	Possible application of gold thin films formed from surfactant free gold nano-particle dispersed in aqueous solutions to surface-enhanced Raman scattering spectroscopy. <i>Molecular Crystals and Liquid Crystals</i> , 2019, 686, 63-69.	0.9	9
59	Enhanced DNA synthesis accompanied by constitutive phosphorylation of the ERK pathway in human fibroblasts cultured on a polyelectrolyte complex. <i>Biomaterials</i> , 2003, 24, 4771-4776.	11.4	8
60	Direct Electron Transfer of Hemoglobin Molecules on Bare ITO Electrodes. <i>Chemistry Letters</i> , 2007, 36, 406-407.	1.3	7
61	Difference of two new LCMV strains in lethality and viral genome load in tissues. <i>Experimental Animals</i> , 2017, 66, 199-208.	1.1	7
62	A Novel Biofuel Cell Based on Direct Electron Transfer Utilizing Enzymatic Activity of Hemoglobin at Indium Oxide Electrodes in Cathodic Process. <i>Chemistry Letters</i> , 2009, 38, 504-505.	1.3	6
63	In situ Observation of Direct Electron Transfer Reaction of Cytochrome c Immobilized on ITO Electrode Modified with 11-{2-[2-(2-Methoxyethoxy)-ethoxy]ethoxy}undecylphosphonic Acid Self-assembled Monolayer Film by Electrochemical Slab Optical Waveguide Spectroscopy. <i>Analytical Sciences</i> , 2017, 33, 469-472.	1.6	6
64	Totally synthetic microperoxidase-11. <i>Royal Society Open Science</i> , 2018, 5, 172311.	2.4	6
65	In situ Observation of Electron Transfer Kinetics of Cytochrome c Adsorbed on ITO Electrode with Applying Pulse Potential Step with Slab Optical Waveguide Spectroscopy. <i>IEICE Transactions on Electronics</i> , 2013, E96.C, 389-392.	0.6	6
66	Analysis and Application of the Transmission Spectrum of a Composite Optical Waveguide. <i>Applied Spectroscopy</i> , 2002, 56, 1222-1227.	2.2	5
67	In Situ Observation of Reduction Behavior of Cytochrome c Adsorbed on Glass Surface by Slab Optical Waveguide Spectroscopy. <i>IEICE Transactions on Electronics</i> , 2011, E94-C, 170-175.	0.6	5
68	System identification of signaling dependent gene expression with different time-scale data. <i>PLoS Computational Biology</i> , 2017, 13, e1005913.	3.2	5
69	Alginate-Stabilized Gold Nanoparticles Prepared Using the Microwave-Induced Plasma-in-Liquid Process with Long-Term Storage Stability for Potential Biomedical Applications. <i>ACS Omega</i> , 2022, 7, 6238-6247.	3.5	5
70	Highly stable gold nanoparticles in an aqueous solution without any stabilizer prepared by a solution plasma process evaluated through capillary zone electrophoresis. <i>Analytical Sciences</i> , 0, .	1.6	5
71	Adsorption of Copper Tetra-t-butylphthalocyanine Aggregates from Alcoholic Solution onto Glass Observed by Optical Waveguide Spectroscopy. <i>Applied Spectroscopy</i> , 2003, 57, 871-874.	2.2	4
72	Perception of Radiation Risk by Japanese Radiation Specialists Evaluated as a Safe Dose Before the Fukushima Nuclear Accident. <i>Health Physics</i> , 2016, 110, 558-562.	0.5	4

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73	In situ Observation of Desorption Reaction of Cytochrome c from Solid/Liquid Interfaces with Slab Optical Waveguide Spectroscopy. <i>Analytical Sciences</i> , 2017, 33, 461-463.	1.6	4
74	Perception of Risks from Radiation by Faculty and Students of Nagasaki University. <i>Radiation Safety Management</i> , 2008, 7, 1-5.	0.4	4
75	Three distinct adsorbed states of adenine on gold nanoparticles depending on pH in aqueous solutions. <i>Chemical Physics Letters</i> , 2022, 786, 139202.	2.6	4
76	The Study on a PVC Membrane Electrode for Gemfibrozil.. <i>Biological and Pharmaceutical Bulletin</i> , 2002, 25, 165-167.	1.4	3
77	Kinetics of Competitive Adsorption of $\hat{\text{I}}^2$ -Casein and Methylene Blue on Hydrophilic Glass. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2141-2146.	2.5	3
78	Mechanism of chromosome rearrangement arising from single-strand breaks. <i>Biochemical and Biophysical Research Communications</i> , 2021, 572, 191-196.	2.1	3
79	&lt;i>In situ</i> Observation of Direct Electron Transfer Reaction of Cytochrome &lt;i>c</i> Immobilized on ITO Electrode Modified with 10-carboxydecylphosphonic Acid by Slab Optical Waveguide Spectroscopy and Cyclic Voltammetry. <i>IEICE Transactions on Electronics</i> , 2015, E98.C, 152-155.	0.6	3
80	A Highly Selective HF Sensor Based on A Potassium Ion-Exchanged Waveguide Polarimetric Interferometer. <i>Chemistry Letters</i> , 2001, 30, 662-663.	1.3	2
81	Time-resolved evanescent wave absorption spectroscopy for real-time monitoring of heme protein adsorption to glass. <i>Analytical Biochemistry</i> , 2008, 374, 196-202.	2.4	2
82	Background radiation and individual dosimetry in the costal area of Tamil Nadu, India. <i>Radiation Protection Dosimetry</i> , 2011, 146, 314-317.	0.8	2
83	Direct Electron Transfer Reaction of Cytochrome <i>c</i> Immobilized on a Bare ITO Electrode. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 433-439.	3.2	2
84	Studies on adsorption behavior of hemoglobin onto hydrophobic surface by using slab optical waveguide spectroscopy. <i>Electronics and Communications in Japan</i> , 2003, 86, 61-66.	0.2	1
85	Effect of Low-voltage Pulse on Cell Elimination. <i>Chemistry Letters</i> , 2012, 41, 1636-1638.	1.3	1
86	<i>In Situ</i> Observation of Desorption and Direct Electron Transfer Reaction of Cytochrome <i>c</i> on Bare ITO Electrode with Electrochemical Slab Optical Waveguide Spectroscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4350-4354.	0.9	1
87	Histograms of Frequency-Intensity Distribution Deep Learning to Predict the Seizure Liability of Drugs in Electroencephalography. <i>Toxicological Sciences</i> , 2021, 182, 229-242.	3.1	1
88	&lt;i>In situ</i> Observation of Immobilization of Cytochrome &lt;i>c</i> into Hydrophobic DNA Nano-Film. <i>IEICE Transactions on Electronics</i> , 2019, E102.C, 471-474.	0.6	1
89	Internal radiation doses in 372 persons who were dispatched to Fukushima from April 2011 to March 2012. <i>Radiation Safety Management</i> , 2013, 12, 48-55.	0.4	1
90	Emission Enhancement of Water-Soluble Porphyrin Immobilized in DNA Ultrathin Films by Localized Surface Plasmon Resonance of Gold Nanoparticles. <i>IEICE Transactions on Electronics</i> , 2019, E102.C, 100-106.	0.6	1

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91	Roles of the SUMO-related enzymes, PIAS1, PIAS4, and RNF4, in DNA double-strand break repair by homologous recombination. <i>Biochemical and Biophysical Research Communications</i> , 2022, 591, 95-101.	2.1	1
92	Slab optical waveguide spectroscopy for in situ interfacial analysis. , 2005, , .		0
93	Title is missing!. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2005, 56, 797-801.	0.2	0
94	Epileptiform Activities in Cultured Human iPSC-Derived Neuronal Networks. <i>Biophysical Journal</i> , 2018, 114, 672a.	0.5	0
95	Effect of Light Irradiation on Carrier Mobility of n- and p-type Si substrates for Solar Cell Application. , 2018, , .		0
96	Prism-Free Broadband Coupling Approach for Spectroelectrochemical Characterization of Surface-Immobilized Molecules. , 2002, , 470-472.		0
97	In Situ Observation of Protein Adsorption Process and Functionality on Solid/Liquid Interfaces by Slab Optical Waveguide Spectroscopy. <i>Journal of the Japan Society of Colour Material</i> , 2010, 84, 18-23.	0.1	0
98	Resetting the Scene. <i>Japanese Journal of Health Physics</i> , 2017, 52, 245-246.	0.1	0
99	Assessment of seizure liability in human iPSC-derived neurons using AI-HESI NeuTox Pilot study-. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2019, 92, 1-P-117.	0.0	0
100	How much balance between excitatory and inhibitory neurons is suitable for detection of seizure liability in hiPSC-derived neurons ?. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2019, 92, 3-P-004.	0.0	0
101	&lt;i>In situ&lt;/i>; Observation of Capturing BTB Molecules from Aqueous Solutions with Hydrophobic DNA Nano-Film. <i>IEICE Transactions on Electronics</i> , 2019, E102.C, 203-206.	0.6	0
102	Development of carbon nanotube MEA system enabling simultaneous measurement of neurotransmitter release and field potential. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2020, 93, 1-P-127.	0.0	0
103	Deep learning for the prediction of seizure liability and MoA of drugs based on the electrophysiological activities in hiPS cell-derived neurons. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2020, 93, 3-P-376.	0.0	0
104	Development of a method for evaluating pain in sensory neurons using 236,880 electrode CMOS-MEA. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2022, 95, 1-P-071.	0.0	0
105	seizure liability&Amp;prediction method based on electrical activities in human iPS cell-derived neurons using machine learning&Amp;Comparison of raster plot model and parameter model-. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2022, 95, 1-P-073.	0.0	0
106	Enhancement effects of metal nanostructures and metal nanofilms on various emissions by interactions of photons with materials or molecules. <i>Molecular Crystals and Liquid Crystals</i> , 2021, 728, 59-81.	0.9	0