

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
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112
all docs

112
docs citations

112
times ranked

2655
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	seizure liability prediction method based on electrical activities in human iPSC cell-derived neurons using machine learning 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
6	<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
7	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
8	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
9	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
10	Mechanism of chromosome rearrangement arising from single-strand breaks. <i>Biochemical and Biophysical Research Communications</i> , 2021, 572, 191-196.	2.1	3
11	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
12	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
13	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
14	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
15	Impact of Sleep-Wake-Associated Neuromodulators and Repetitive Low-Frequency Stimulation on Human iPSC-Derived Neurons. <i>Frontiers in Neuroscience</i> , 2019, 13, 554.	2.8	15
16	<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
17	<i>In situ</i> Observation of Immobilization of Cytochrome <i>c</i> into Hydrophobic DNA Nano-Film. <i>IEICE Transactions on Electronics</i> , 2019, E102.C, 471-474.	0.6	1
18	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

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19	How much balance between excitatory and inhibitory neurons is suitable for detection of seizure liability in hiPSC-derived neurons ?. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 3-P-004.	0.0	0
20	<i>In situ</i>; Observation of Capturing BTB Molecules from Aqueous Solutions with Hydrophobic DNA Nano-Film. IEICE Transactions on Electronics, 2019, E102.C, 203-206.	0.6	0
21	Emission Enhancement of Water-Soluble Porphyrin Immobilized in DNA Ultrathin Films by Localized Surface Plasmon Resonance of Gold Nanoparticles. IEICE Transactions on Electronics, 2019, E102.C, 100-106.	0.6	1
22	Cancer mortality in residents of the terrain-shielded area exposed to fallout from the Nagasaki atomic bombing. Journal of Radiation Research, 2018, 59, 1-9.	1.6	21
23	Synthesis of Pt nanoparticles as catalysts of oxygen reduction with microbubble-assisted low-voltage and low-frequency solution plasma processing. Journal of Power Sources, 2018, 382, 69-76.	7.8	14
24	Epileptiform Activities in Cultured Human iPSC-Derived Neuronal Networks. Biophysical Journal, 2018, 114, 672a.	0.5	0
25	Effect of Light Irradiation on Carrier Mobility of n- and p-type Si substrates for Solar Cell Application. , 2018, , .		0
26	Totally synthetic microperoxidase-11. Royal Society Open Science, 2018, 5, 172311.	2.4	6
27	Regulation of pairing between broken DNA-containing chromatin regions by Ku80, DNA-PKcs, ATM, and 53BP1. Scientific Reports, 2017, 7, 41812.	3.3	15
28	Preparation of Au nano-particle dispersed water solution without surfactant for surface-enhanced Raman scattering platform. Molecular Crystals and Liquid Crystals, 2017, 653, 137-143.	0.9	10
29	Difference of two new LCMV strains in lethality and viral genome load in tissues. Experimental Animals, 2017, 66, 199-208.	1.1	7
30	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. Analytical Sciences, 2017, 33, 469-472.	1.6	6
31	In situ Observation of Desorption Reaction of Cytochrome c from Solid/Liquid Interfaces with Slab Optical Waveguide Spectroscopy. Analytical Sciences, 2017, 33, 461-463.	1.6	4
32	System identification of signaling dependent gene expression with different time-scale data. PLoS Computational Biology, 2017, 13, e1005913.	3.2	5
33	Resetting the Scene. Japanese Journal of Health Physics, 2017, 52, 245-246.	0.1	0
34	Perception of Radiation Risk by Japanese Radiation Specialists Evaluated as a Safe Dose Before the Fukushima Nuclear Accident. Health Physics, 2016, 110, 558-562.	0.5	4
35	Chemical composition, aroma evaluation, and inhibitory activity towards acetylcholinesterase of essential oils from Gynura bicolor DC.. Journal of Natural Medicines, 2016, 70, 282-289.	2.3	25
36	Pervaporation and vapor permeation characteristics of BTESE-derived organosilica membranes and their long-term stability in a high-water-content IPA/water mixture. Journal of Membrane Science, 2016, 498, 336-344.	8.2	36

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37	<i>In situ</i> Observation of Direct Electron Transfer Reaction of Cytochrome c Immobilized on ITO Electrode Modified with 10-carboxydecylphosphonic Acid by Slab Optical Waveguide Spectroscopy and Cyclic Voltammetry. IEICE Transactions on Electronics, 2015, E98.C, 152-155.	0.6	3
38	Radiocesium concentrations in wild mushrooms collected in Kawauchi Village after the accident at the Fukushima Daiichi Nuclear Power Plant. PeerJ, 2015, 3, e1427.	2.0	33
39	Improvement of solvent affinity for graphene derivatives by solution plasma process. Japanese Journal of Applied Physics, 2014, 53, 01AD05.	1.5	9
40	Evaluation of Biofuel Cells with Hemoglobin as Cathodic Electrocatalysts for Hydrogen Peroxide Reduction on Bare Indium-Tin-Oxide Electrodes. Energies, 2014, 7, 1-12.	3.1	10
41	Synthesis of multiwall carbon nanotube-supported platinum catalysts by solution plasma processing for oxygen reduction in polymer electrolyte fuel cells. Electrochimica Acta, 2014, 146, 73-78.	5.2	23
42	Assessment of Internal Exposure Doses in Fukushima by a Whole Body Counter Within One Month after the Nuclear Power Plant Accident. Radiation Research, 2013, 179, 663-668.	1.5	77
43	Potential structure of discharge plasma inside liquid directly measured by an electrostatic probe. Applied Physics Letters, 2013, 102, .	3.3	14
44	<i>In situ</i> Observation of Electron Transfer Kinetics of Cytochrome c Adsorbed on ITO Electrode with Applying Pulse Potential Step with Slab Optical Waveguide Spectroscopy. IEICE Transactions on Electronics, 2013, E96.C, 389-392.	0.6	6
45	Internal radiation doses in 372 persons who were dispatched to Fukushima from April 2011 to March 2012. Radiation Safety Management, 2013, 12, 48-55.	0.4	1
46	Effect of Low-voltage Pulse on Cell Elimination. Chemistry Letters, 2012, 41, 1636-1638.	1.3	1
47	Kinetics of Competitive Adsorption of β -Casein and Methylene Blue on Hydrophilic Glass. Journal of Physical Chemistry A, 2012, 116, 2141-2146.	2.5	3
48	Characteristic Odor Components of Essential Oil from Dried Fruiting Bodies of Golden Oyster Mushroom (<i>Pleurotus citrinopileatus</i>). Journal of Essential Oil Research, 2011, 23, 58-63.	2.7	12
49	In Situ Observation of Reduction Behavior of Cytochrome c Adsorbed on Glass Surface by Slab Optical Waveguide Spectroscopy. IEICE Transactions on Electronics, 2011, E94-C, 170-175.	0.6	5
50	Background radiation and individual dosimetry in the costal area of Tamil Nadu, India. Radiation Protection Dosimetry, 2011, 146, 314-317.	0.8	2
51	Character impact odorants from wild mushroom (<i>Lactarius hatsudake</i>) used in Japanese traditional food. Flavour and Fragrance Journal, 2010, 25, 197-201.	2.6	26
52	In Situ Observation of Protein Adsorption Process and Functionality on Solid/Liquid Interfaces by Slab Optical Waveguide Spectroscopy. Journal of the Japan Society of Colour Material, 2010, 84, 18-23.	0.1	0
53	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. Thin Solid Films, 2009, 517, 2905-2911.	1.8	10
54	A Novel Biofuel Cell Based on Direct Electron Transfer Utilizing Enzymatic Activity of Hemoglobin at Indium-Tin-Oxide Electrodes in Cathodic Process. Chemistry Letters, 2009, 38, 504-505.	1.3	6

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55	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
56	Spectropolarimetric interferometer based on single-mode glass waveguides. <i>Optics Express</i> , 2008, 16, 2245.	3.4	9
57	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
58	Characteristic Flavor of Volatile Oil from Dried Fruiting Bodies of <i>Hericium erinaceus</i> (Bull.) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.7	20
59	Perception of Risks from Radiation by Faculty and Students of Nagasaki University. <i>Radiation Safety Management</i> , 2008, 7, 1-5.	0.4	4
60	Direct Electron Transfer of Hemoglobin Molecules on Bare ITO Electrodes. <i>Chemistry Letters</i> , 2007, 36, 406-407.	1.3	7
61	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
62	Slab optical waveguide spectroscopy for in situ interfacial analysis. , 2005, , .		0
63	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
64	Title is missing!. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2005, 56, 797-801.	0.2	0
65	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
66	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
67	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
68	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
69	Time-Resolved Optical Waveguide Spectroscopy for Studying Protein Adsorption Kinetics. <i>Materials Transactions</i> , 2004, 45, 1015-1018.	1.2	13
70	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
71	Wiring Electrons of Cytochrome c with Silver Nanoparticles in Layered Films. <i>ChemPhysChem</i> , 2003, 4, 1364-1366.	2.1	61
72	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

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73	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
74	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
75	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
76	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
77	A Study of Molecular Adsorption of Bromothymol Blue by Optical Waveguide Spectroscopy. <i>Langmuir</i> , 2003, 19, 214-217.	3.5	17
78	Insertion of a Two-Dimensional Cavity into a Self-Assembled Colloidal Crystal. <i>Langmuir</i> , 2003, 19, 4465-4468.	3.5	106
79	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
80	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
81	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
82	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
83	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
84	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
85	The Study on a PVC Membrane Electrode for Gemfibrozil.. <i>Biological and Pharmaceutical Bulletin</i> , 2002, 25, 165-167.	1.4	3
86	Prism-coupled multimode waveguide refractometer. <i>Optics Letters</i> , 2002, 27, 689.	3.3	39
87	Optical waveguide spectrometer based on thin-film glass plates. <i>Optics Letters</i> , 2002, 27, 2001.	3.3	45
88	Analysis and Application of the Transmission Spectrum of a Composite Optical Waveguide. <i>Applied Spectroscopy</i> , 2002, 56, 1222-1227.	2.2	5
89	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
90	Prism-Free Broadband Coupling Approach for Spectroelectrochemical Characterization of Surface-Immobilized Molecules. , 2002, , 470-472.		0

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91	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
92	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
93	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
94	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
95	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
96	Photothermal Signal Detection on the Optical Waveguide. <i>Chemistry Letters</i> , 1997, 26, 583-584.	1.3	10
97	Absorption Spectra of Rhodamine 6G by Slab Optical Waveguide Spectroscopy. <i>Chemistry Letters</i> , 1996, 25, 105-106.	1.3	39
98	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
99	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
100	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
101	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
102	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
103	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
104	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
105	Surface-Enhanced Infrared and Raman Studies of Electrochemical Reduction of Self-Assembled Monolayers Formed from p-Nitrothiophenol at Silver. <i>Chemistry Letters</i> , 1992, 21, 1385-1388.	1.3	45
106	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