

# Yuzuru Iwasaki

## List of Publications by Year in descending order

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41  
papers

982  
citations

394421

19  
h-index

434195

31  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1097  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of Electrochemical Enzymatic Reactions by Surface Plasmon Resonance Measurement. <i>Analytical Chemistry</i> , 2001, 73, 1595-1598.	6.5	119
2	Fiber-optic conical microsensors for surface plasmon resonance using chemically etched single-mode fiber. <i>Analytica Chimica Acta</i> , 2004, 523, 165-170.	5.4	96
3	Detection of odorants using an array of piezoelectric crystals and neural-network pattern recognition. <i>Analytica Chimica Acta</i> , 1991, 249, 323-329.	5.4	52
4	Reductive H <sub>2</sub> O <sub>2</sub> Detection at Nanoparticle Iridium/Carbon Film Electrode and Its Application as L-Glutamate Enzyme Sensor. <i>Electroanalysis</i> , 2004, 16, 54-59.	2.9	52
5	Time differential surface plasmon resonance measurements applied for electrochemical analysis. <i>Electroanalysis</i> , 1997, 9, 1239-1241.	2.9	45
6	Analysis of electrochemical processes using surface plasmon resonance. <i>Sensors and Actuators B: Chemical</i> , 1998, 50, 145-148.	7.8	40
7	Application of an Absorption-Based Surface Plasmon Resonance Principle to the Development of SPR Ammonium Ion and Enzyme Sensors. <i>Analytical Chemistry</i> , 2002, 74, 6106-6110.	6.5	39
8	Polymer brush biointerfaces for highly sensitive biosensors that preserve the structure and function of immobilized proteins. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 428-433.	7.8	39
9	On-line microfluidic sensor integrated with a micro array electrode and enzyme-modified pre-reactor for the real-time monitoring of blood catecholamine. <i>Electrochemistry Communications</i> , 2003, 5, 1037-1042.	4.7	37
10	Selective Detection of a Catecholamine against Electroactive Interferents Using an Interdigitated Heteroarray Electrode Consisting of a Metal Oxide Electrode and a Metal Band Electrode. <i>Analytical Chemistry</i> , 2005, 77, 5236-5242.	6.5	37
11	Electrochemical reaction of Fe(CN) <sub>3</sub> <sup>4-</sup> on gold electrodes analyzed by surface plasmon resonance. <i>Surface Science</i> , 1999, 427-428, 195-198.	1.9	35
12	Imaging of electrochemical enzyme sensor on gold electrode using surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2002, 17, 783-788.	10.1	34
13	Co-Sputtered Thin Film Consisting of Platinum Nanoparticles Embedded in Graphite-Like Carbon and Its High Electrocatalytic Properties for Electroanalysis. <i>Chemistry of Materials</i> , 2002, 14, 4796-4799.	6.7	30
14	The highly sensitive detection of catecholamines using a microfluidic device integrated with an enzyme-modified pre-reactor for interferent elimination and an interdigitated array electrode. <i>Journal of Electroanalytical Chemistry</i> , 2005, 579, 215-222.	3.8	30
15	Biocompatible glucose sensor prepared by modifying protein and vinylferrocene monomer composite membrane. <i>Biosensors and Bioelectronics</i> , 2004, 20, 518-523.	10.1	27
16	A novel biosensor using electrochemical surface plasmon resonance measurements. <i>Chemical Communications</i> , 2000, , 741-742.	4.1	23
17	Development of Nanoscale Interdigitated Array Electrode as Electrochemical Sensor Platform for Highly Sensitive Detection of Biomolecules. <i>Journal of the Electrochemical Society</i> , 2008, 155, J240.	2.9	23
18	On-Line Monolithic Enzyme Reactor Fabricated by Sol-Gel Process for Elimination of Ascorbic Acid While Monitoring Dopamine. <i>Electroanalysis</i> , 2005, 17, 231-238.	2.9	22

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19	Selective Electrochemical Response of Dopamine against 3,4-Dihydroxyphenylacetic Acid at Bare Indium-Tin Oxide Electrode. <i>Chemistry Letters</i> , 2005, 34, 1120-1121.	1.3	21
20	Preparation of refractive index matching polymer film alternative to oil for use in a portable surface-plasmon resonance phenomenon-based chemical sensor method. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 222-226.	3.7	18
21	Discriminative Detection of Volatile Sulfur Compound Mixtures with a Plasma-Polymerized Film-Based Sensor Array Installed in a Humidity-Control System. <i>Analytical Chemistry</i> , 2005, 77, 4228-4234.	6.5	17
22	Selective Electrochemical Detection Using a Split Disk Array Electrode in a Thin-Layer Radial Flow System. <i>Analytical Chemistry</i> , 1996, 68, 3797-3800.	6.5	15
23	Room-Temperature Ionic-Liquid-Incorporated Plasma-Deposited Thin Films for Discriminative Alcohol-Vapor Sensing. <i>Chemistry of Materials</i> , 2006, 18, 2656-2662.	6.7	15
24	Heavy Phosphate Adsorption on Amorphous ITO Film Electrodes: Nano-Barrier Effect for Highly Selective Exclusion of Anionic Species. <i>Langmuir</i> , 2007, 23, 8400-8405.	3.5	15
25	Newly Developed Chemical Probes and Nano-Devices for Cellular Analysis. <i>Analytical Sciences</i> , 2008, 24, 55-66.	1.6	14
26	Passive Fluidic Chip Composed of Integrated Vertical Capillary Tubes Developed for On-Site SPR Immunoassay Analysis Targeting Real Samples. <i>Sensors</i> , 2012, 12, 7095-7108.	3.8	12
27	Patterned cellulose membrane for surface plasmon resonance measurement. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 354-360.	7.8	9
28	A reliable aptamer array prepared by repeating inkjet-spotting toward on-site measurement. <i>Biosensors and Bioelectronics</i> , 2016, 85, 943-949.	10.1	9
29	Highly Selective Response of Dopamine Against its Metabolite and Interfering Molecules at Sputtered ITO Electrode Surface. <i>Electrochemistry</i> , 2006, 74, 135-137.	1.4	8
30	Imaging of flow pattern in micro flow channel using surface plasmon resonance. <i>Measurement Science and Technology</i> , 2006, 17, 3184-3188.	2.6	8
31	Floating Chip Mounting System Driven by Repulsive Force of Permanent Magnets for Multiple On-Site SPR Immunoassay Measurements. <i>Sensors</i> , 2012, 12, 13964-13984.	3.8	8
32	Photoresponse of a reconstituted membrane containing bacteriorhodopsin observed by using an ion-selective field effect transistor. <i>Journal of Biotechnology</i> , 1989, 10, 127-134.	3.8	7
33	Electrocatalysis of nitrite reductase from <i>Alcaligenes faecalis</i> strain 6 mediated by native redox partner. <i>Electroanalysis</i> , 1992, 4, 771-776.	2.9	7
34	Fabrication of a Nanofluidic Channel for SPR Sensing Application Using Glass-to-Glass Anodic Bonding. <i>Electrochemistry</i> , 2006, 74, 169-171.	1.4	4
35	Air-band optical resonators in one-dimensional Si photonic crystal waveguides for biosensing applications. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 04EG09.	1.5	4
36	Direct Measurement of Near-Wall Molecular Transport Rate in a Microchannel and Its Dependence on Diffusivity. <i>Langmuir</i> , 2021, 37, 8687-8695.	3.5	4

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37	Electrochemical Behaviour of Copper-Containing Nitrite Reductase from <i>Alcaligenes Faecalis</i> Strain-6. <i>Biocatalysis</i> , 1992, 6, 235-245.	0.9	3
38	Direct electron transfer reaction of a blue protein from <i>Alcaligenes faecalis</i> strain 6. <i>Electroanalysis</i> , 1992, 4, 765-770.	2.9	3
39	Electrochemical Surface Plasmon Resonance Measurement of Electrocatalytic Oxidation of Glucose on Gold Electrode. <i>Electrochemistry</i> , 2006, 74, 172-174.	1.4	1
40	Plasmon Sensors, Its Structure and Functions. , 2021, , .		0
41	Real-Time SPR Imaging of Biochemical Reactions in Microfluidic Systems. , 2002, , 263-265.		0