

Hidenobu Aizawa

List of Publications by Year in descending order

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61
papers

1,092
citations

430874

18
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434195

31
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all docs

61
docs citations

61
times ranked

1185
citing authors

#	ARTICLE	IF	CITATIONS
1	Quartz crystal microbalance immunosensors for environmental monitoring. <i>Biosensors and Bioelectronics</i> , 2006, 22, 473-481.	10.1	134
2	Synthesis of tethered-polymer brush by atom transfer radical polymerization from a plasma-polymerized-film-coated quartz crystal microbalance and its application for immunosensors. <i>Biosensors and Bioelectronics</i> , 2004, 20, 1165-1176.	10.1	71
3	Evaluation of a high-affinity QCM immunosensor using antibody fragmentation and 2-methacryloyloxyethyl phosphorylcholine (MPC) polymer. <i>Biosensors and Bioelectronics</i> , 2004, 20, 1134-1139.	10.1	60
4	Detection of deposition rate of plasma-polymerized films by quartz crystal microbalance. <i>Thin Solid Films</i> , 2000, 374, 262-267.	1.8	53
5	Piezoelectric immunosensor for bisphenol A based on signal enhancing step with 2-methacryloyloxyethyl phosphorylcholine polymeric nanoparticle. <i>Analyst</i> , The, 2006, 131, 155-162.	3.5	42
6	Synthesis and characterization of plasma-polymerized hexamethyldisiloxane films. <i>Thin Solid Films</i> , 2006, 506-507, 176-179.	1.8	41
7	Quartz crystal microbalance immunosensor for highly sensitive 2,3,7,8-tetrachlorodibenzo-p-dioxin detection in fly ash from municipal solid waste incinerators. <i>Analyst</i> , The, 2005, 130, 1495.	3.5	39
8	Immunosensors using a quartz crystal microbalance. <i>Measurement Science and Technology</i> , 2003, 14, 1882-1887.	2.6	38
9	Comparison of stabilizing effect of stabilizers for immobilized antibodies on QCM immunosensors. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 158-162.	7.8	37
10	Architecture, component, and microbiome of biofilm involved in the fouling of membrane bioreactors. <i>Npj Biofilms and Microbiomes</i> , 2017, 3, 5.	6.4	37
11	Rapid detection of fibrinogen and fibrin degradation products using a smart QCM-sensor. <i>Sensors and Actuators B: Chemical</i> , 2004, 101, 150-154.	7.8	32
12	Surface plasmon resonance-based trace detection of small molecules by competitive and signal enhancement immunoreaction. <i>Analytica Chimica Acta</i> , 2007, 591, 191-194.	5.4	30
13	Turning of contact angle on glass plates coated with plasma-polymerized styrene, allylamine and acrylic acid. <i>Materials Science and Engineering C</i> , 2000, 12, 49-54.	7.3	27
14	Conventional diagnosis of C-reactive protein in serum using latex piezoelectric immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2001, 76, 173-176.	7.8	27
15	Real-Time Online Monitoring for Assessing Removal of Bacteria by Reverse Osmosis. <i>Environmental Science and Technology Letters</i> , 2018, 5, 389-393.	8.7	24
16	Conventional detection method of fibrinogen and fibrin degradation products using latex piezoelectric immunoassay. <i>Biosensors and Bioelectronics</i> , 2003, 18, 765-771.	10.1	22
17	Unexpected diversity of acetate degraders in anaerobic membrane bioreactor treating organic solid waste revealed by high-sensitivity stable isotope probing. <i>Water Research</i> , 2020, 176, 115750.	11.3	21
18	Dioxin immunosensor using anti-2,3,7,8-TCDD antibody which was produced with mono 6-(2,3,6,7-tetrachloroxanthene-9-ylidene) hexyl succinate as a hapten. <i>Biosensors and Bioelectronics</i> , 2006, 22, 409-414.	10.1	19

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19	Microbial community in an anaerobic membrane bioreactor and its performance in treating organic solid waste under controlled and deteriorated conditions. <i>Journal of Environmental Management</i> , 2020, 269, 110786.	7.8	18
20	Conventional diagnosis of <i>Treponema pallidum</i> in serum using latex piezoelectric immunoassay. <i>Materials Science and Engineering C</i> , 2001, 17, 127-132.	7.3	17
21	Detection of deposition rate of plasma-polymerized silicon-containing films by quartz crystal microbalance. <i>Thin Solid Films</i> , 2002, 407, 1-6.	1.8	17
22	Rapid diagnosis of <i>Treponema pallidum</i> in serum using latex piezoelectric immunoassay. <i>Analytica Chimica Acta</i> , 2001, 437, 167-169.	5.4	16
23	Adsorption of anti-C-Reactive Protein Monoclonal Antibody and Its F(ab') ₂ fragment on Plasma-Polymerized Styrene, Allylamine and Acrylic Acid Coated with Quartz Crystal Microbalance.. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2002, 15, 323-329.	0.3	16
24	Gas Recognition Films Fabricated by Microplasma Technology. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2006, 19, 253-257.	0.3	16
25	STW gas sensors using plasma-polymerized allylamine. <i>Thin Solid Films</i> , 2007, 515, 4105-4110.	1.8	16
26	Synthesis and Characterization of Microplasma-Polymerized Styrene and Propargyl Alcohol Films. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2005, 18, 273-276.	0.3	15
27	Taking MALDI SpiralTOF high-resolution mass spectrometry and mass defect analysis to the next level with ethylene vinyl acetate vinyl alcohol terpolymers. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1818-1822.	1.5	15
28	Detection of deposition rate of plasma-polymerized acrylate and methacrylate derivatives using quartz crystal microbalance. <i>Thin Solid Films</i> , 2004, 457, 26-33.	1.8	14
29	Long-term acclimatization of sludge microbiome for treatment of high-strength organic solid waste in anaerobic membrane bioreactor. <i>Biochemical Engineering Journal</i> , 2020, 154, 107461.	3.6	14
30	Preparation of long-lifetime gas recognition films by plasma polymerization technique. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 558-563.	7.8	13
31	Behavior of Contact Angle on Glass Plates Coated with Plasma- Polymerized Styrene, Allylamine and Acrylic Acid. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 1999, 12, 63-67.	0.3	12
32	Conventional detection of 2,4-dinitrophenol using quartz crystal microbalance. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003, 50, 193-195.	3.0	12
33	Microbiomes and chemical components of feed water and membrane-attached biofilm in reverse osmosis system to treat membrane bioreactor effluents. <i>Scientific Reports</i> , 2018, 8, 16805.	3.3	12
34	Immunosensor Using Surface Plasmon Resonance for C-Reactive Protein Detection. <i>Electrochemistry</i> , 2006, 74, 153-155.	1.4	11
35	On-Demand Fabrication of Microplasma-Polymerized Styrene Films using Automatic Motion Controller. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2007, 20, 215-220.	0.3	11
36	Adsorption of ¹²⁵ I-labeled immunoglobulin G, its F(ab ²) and Fc fragments onto plasma-polymerized films. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2598-2603.	10.1	11

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37	Dynamic properties of the polyethylene glycol molecules on the oscillating solid-liquid interface. <i>Analytica Chimica Acta</i> , 2012, 731, 82-87.	5.4	8
38	Clarifying prokaryotic and eukaryotic biofilm microbiomes in anaerobic membrane bioreactor by non-destructive microscopy and high-throughput sequencing. <i>Chemosphere</i> , 2020, 254, 126810.	8.2	8
39	Study to Increase the Sensitivity of QCM Gas-Sensor Coated with Plasma Polymerization Film. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 371, 411-414.	0.3	7
40	Effects of the Wastewater Flow Rate on Interactions between the Genus <i>Nitrosomonas</i> and Diverse Populations in an Activated Sludge Microbiome. <i>Microbes and Environments</i> , 2019, 34, 89-94.	1.6	6
41	Detection of Deposition Rate of Plasma-Polymerized Films with a Quartz Crystal Microbalance.. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2000, 13, 33-38.	0.3	5
42	Plasma Polymerization of Silicon-Containing Monomers.. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2001, 14, 129-138.	0.3	5
43	Synthesis and characterization of plasma-polymerized tert-butylacrylate films. <i>Thin Solid Films</i> , 2007, 515, 4141-4147.	1.8	5
44	Transition of microbial community structures after development of membrane fouling in membrane bioreactors (MBRs). <i>AMB Express</i> , 2020, 10, 18.	3.0	5
45	Stabilizing effect of artificial stabilizers for binding activity of QCM immunosensors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003, 50, 1234-1235.	3.0	4
46	Conventional Measurement Method of Film Resistance of Plasma-Polymerized Thin Films Using a High-Resistance Meter. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2003, 16, 43-48.	0.3	4
47	Gas Sorption of Acetone, Diethyl Ether, Toluene, Acetic Acid, and Ammonia on Plasma-Polymerized Hexamethyldisiloxane Films Coated with Quartz Crystal Microbalance. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2009, 22, 743-745.	0.3	4
48	Effective Se reduction by lactate-stimulated indigenous microbial communities in excavated waste rocks. <i>Journal of Hazardous Materials</i> , 2021, 403, 123908.	12.4	4
49	Nitrate-Driven Trophic Association of Sulfur-Cycling Microorganisms in Tsunami-Deposited Marine Sediment Revealed by High-Sensitivity ¹³ C-Bicarbonate Probing. <i>Environmental Science & Technology</i> , 2021, 55, 8410-8421.	10.0	4
50	STW Gas Sensors using Microplasma-Polymerized Films. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2007, 20, 251-254.	0.3	3
51	Effect of RF Power and Annealing Time on Plasma-Polymerized Allyl Alcohol and Propargyl Alcohol Films and Their Extractable Testing for Solvents by QCM-Technique. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2004, 17, 171-172.	0.3	2
52	Detection of C-Reactive Protein in Serum Using Resonant Property of Quartz Crystal Microbalance. <i>Electrochemistry</i> , 2006, 74, 156-158.	1.4	2
53	Determination of Rate Constant for Enolization Reaction of Malonic Acid by Using Quartz Crystal Microbalance. <i>Bunseki Kagaku</i> , 2012, 61, 863-867.	0.2	2
54	Physical Properties of Self-Assembled Monolayers of Mercapto Oligo (ethylene oxide) Methyl Ether on Gold. <i>Journal of Oleo Science</i> , 2013, 62, 45-50.	1.4	2

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55	Synthesis and Characterization of Microplasma-Polymerized Styrene Films. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2008, 21, 271-276.	0.3	1
56	Application of the Smart Sensors using Quartz Crystal Microbalance. IEEJ Transactions on Sensors and Micromachines, 2015, 135, 292-298.	0.1	1
57	Efficient Immobilization Methods of Antibody on Quartz Crystal Microbalance Immunosensors. , 2006, , .		0
58	Preliminary Evaluation of Mass Attachment Effect of Ceramic Resonator Device Using Plasma Polymerized Styrene Film Deposition Method. Japanese Journal of Applied Physics, 2006, 45, 8473-8478.	1.5	0
59	The Simple Monitoring method of Trichloroethylene Using a Quartz Crystal Microbalance by the Hybrid type. , 2006, , .		0
60	Title is missing!. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2007, 58, 791-797.	0.2	0
61	Organic Gas Sorption on Plasma-Polymerized Allylamine Films Coated with Quartz Crystal Microbalance. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24, 459-461.	0.3	0