

Masaki Yamaguchi

List of Publications by Year in descending order

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59
papers

1,278
citations

623734

14
h-index

361022

35
g-index

59
all docs

59
docs citations

59
times ranked

1375
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of psychological stress on the salivary cortisol and amylase levels in healthy young adults. Archives of Oral Biology, 2004, 49, 963-968.	1.8	411
2	Performance evaluation of salivary amylase activity monitor. Biosensors and Bioelectronics, 2004, 20, 491-497.	10.1	190
3	Hand-held monitor of sympathetic nervous system using salivary amylase activity and its validation by driver fatigue assessment. Biosensors and Bioelectronics, 2006, 21, 1007-1014.	10.1	160
4	Immunosensor with fluid control mechanism for salivary cortisol analysis. Biosensors and Bioelectronics, 2013, 41, 186-191.	10.1	77
5	Plasma cytokine levels and the presence of colorectal cancer. PLoS ONE, 2019, 14, e0213602.	2.5	54
6	Flow-injection-type biosensor system for salivary amylase activity. Biosensors and Bioelectronics, 2003, 18, 835-840.	10.1	50
7	Evaluation of Driver Stress Using Motor-vehicle Driving Simulator. IEJ Transactions on Sensors and Micromachines, 2006, 126, 438-444.	0.1	29
8	Point of care testing system via enzymatic method for the rapid, efficient assay of glycated albumin. Biosensors and Bioelectronics, 2005, 21, 426-432.	10.1	28
9	Stress Evaluation in Adult Patients with Atopic Dermatitis Using Salivary Cortisol. BioMed Research International, 2013, 2013, 1-5.	1.9	27
10	Secretory and continuous expression of Aspergillus niger glucose oxidase gene in Pichia pastoris. Protein Expression and Purification, 2007, 55, 273-278.	1.3	24
11	Flat-Chip Microanalytical Enzyme Sensor for Salivary Amylase Activity. Biomedical Microdevices, 2005, 7, 295-300.	2.8	21
12	Evaluation of Time-Course Changes of Gingival Crevicular Fluid Glucose Levels in Diabetics. Biomedical Microdevices, 2005, 7, 53-58.	2.8	18
13	Fabrication of nano-periodic structures and modification of the Wenzel model to estimate contact angle. Sensors and Actuators A: Physical, 2014, 212, 87-92.	4.1	16
14	Relationship between salivary cortisol and depression in adolescent survivors of a major natural disaster. Journal of Physiological Sciences, 2014, 64, 261-267.	2.1	15
15	Salivary cytokine panel indicative of non-small cell lung cancer. Journal of International Medical Research, 2018, 46, 3570-3582.	1.0	15
16	Competitive and product inhibition-based α -amylase activity analysis method. Clinical Biochemistry, 2008, 41, 325-330.	1.9	14
17	Automated-immunosensor with centrifugal fluid valves for salivary cortisol measurement. Sensing and Bio-Sensing Research, 2014, 1, 15-20.	4.2	13
18	Error Grid Analysis of Noninvasive Glucose Monitoring Via Gingival Crevicular Fluid. IEEE Transactions on Biomedical Engineering, 2005, 52, 1796-1798.	4.2	11

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19	Evaluation of the Acute Sedative Effect of Fragrances Based on a Biochemical Marker. Journal of Essential Oil Research, 2007, 19, 470-476.	2.7	11
20	Comparison of cathepsin L activity in cheek and forearm stratum corneum in young female adults. Skin Research and Technology, 2009, 15, 370-375.	1.6	11
21	Microfabrication of re-entrant surface with hydrophobicity/oleophobicity for liquid foods. Scientific Reports, 2020, 10, 2250.	3.3	10
22	Estimation of tongue movement based on suprahyoid muscle activity. , 2011, , .		9
23	Correlation of Salivary Amylase Activity With Eustress in Patients With Severe Motor and Intellectual Disabilities. Japanese Journal of Special Education, 2008, 45, 447-457.	0.2	7
24	Point-of-use measurement of salivary cortisol levels. , 2009, , .		7
25	Injection-molded plastic plate with hydrophobic surface by nanoperiodic structure applied in uniaxial direction. Journal of Adhesion Science and Technology, 2015, 29, 24-35.	2.6	6
26	Possible utilization of salivary IFN α 3/IL α 4 ratio as a marker of chronic stress in healthy individuals. Neuropsychopharmacology Reports, 2021, 41, 65-72.	2.3	6
27	Direct Laser Processing of Two-Scale Periodic Structures for Superhydrophobic Surfaces Using a Nanosecond Pulsed Laser. Lasers in Manufacturing and Materials Processing, 2020, 7, 496-512.	2.2	5
28	Evaluation of the Sedative Effect of Fragrance on Filipinas Using a Biochemical Marker. Journal of Physiological Anthropology, 2007, 26, 247-251.	2.6	4
29	Salivary Sensors for Quantification of Stress Response Biomarker. Electrochemistry, 2011, 79, 442-446.	1.4	4
30	Microfluidic Line-Free Mass Sensor Based on an Antibody-Modified Mechanical Resonator. Micromachines, 2018, 9, 177.	2.9	4
31	A Salivary Cytokine Panel Discriminates Moods States Following a Touch Massage Intervention. International Journal of Affective Engineering, 2020, 19, 189-198.	0.5	4
32	Cathepsin L Activity Analysis Method for Evaluation of Skin Conditions of Human. Bunseki Kagaku, 2009, 58, 15-19.	0.2	3
33	Proposal of Noninvasive Liver Function Measurement Method via Saliva. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 483-486.	0.1	2
34	Analysis of Accuracy of Salivary Amylase Monitor. Journal of Life Support Engineering, 2009, 21, 130-136.	0.0	2
35	Noninvasive biosensor for cathepsin L in the stratum corneum. Skin Research and Technology, 2012, 18, 332-338.	1.6	2
36	Application of hydrophobic micropatterns to centrifugal fluid valve in flow channel. Journal of Adhesion Science and Technology, 2015, 29, 2565-2575.	2.6	2

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37	Disposable collection kit for rapid and reliable collection of saliva. American Journal of Human Biology, 2015, 27, 720-723.	1.6	2
38	Proposal of blood-collecting needle approach to semi-invasive method. Diabetes Research and Clinical Practice, 2004, 66, S179-S183.	2.8	1
39	Improvement of Water Repellency of Biomass Plastic Molding by Fractal Micro-Structure on Mold Surface. 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2011, 77, 1127-1129.	0.2	1
40	Proposal for a Power Supply Line-Free Mass Sensor for Measuring Total Protein in Human Saliva. Sensor Letters, 2014, 12, 1186-1189.	0.4	1
41	Evaluation of Stress on Menstrual Cycle Using Salivary Amylase Activity. Journal of Life Support Engineering, 2012, 24, 123-127.	0.0	1
42	Adaptability evaluation of wheelchair based on physical and mental load. , 2010, , .		0
43	Fabrication of nano-periodic structure for water repellent using femtosecond laser. , 2011, , .		0
44	Recovery Supporting Technology from Stress Based on Salivary Biomarkers. Journal of the Japan Society for Precision Engineering, 2016, 82, 731-734.	0.1	0
45	Microcapsule-Based Signal Amplification Method for Biomolecules. Sensors, 2019, 19, 2711.	3.8	0
46	J0201-3-2 Noninvasive Sensing of Anti-oxidant Capacity of Human Skin Using Skin Enzyme. The Proceedings of the JSME Annual Meeting, 2009, 2009.6, 121-122.	0.0	0
47	J0201-3-3 Noninvasive Sensing of Skin Cancer for Early Diagnosis. The Proceedings of the JSME Annual Meeting, 2009, 2009.6, 123-124.	0.0	0
48	Evaluation of Skin Photo-stress Using Catalase. Journal of Life Support Engineering, 2010, 22, 119-124.	0.0	0
49	J1102-3-4 Proposal of Analysis Device for Skin Biomarker Using Colloidal Gold Technique. The Proceedings of the JSME Annual Meeting, 2010, 2010.7, 375-376.	0.0	0
50	Fabrication of Flexible Electrodes using Inkjet Printer. IEEJ Transactions on Sensors and Micromachines, 2012, 132, 172-173.	0.1	0
51	2B42 Theoretical consideration of apparent contact angle on water repellent model with pinning effect. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 375-376.	0.0	0
52	2G35 Quantification of relationship between web and scientific paper text data of stress. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 583-584.	0.0	0
53	Improvement of Precision of Gas-bubble Sensor by Surface with Periodic Structure. IEEJ Transactions on Sensors and Micromachines, 2016, 136, 108-114.	0.1	0
54	Optimization and Performance Evaluation of Centrifugal-Type Salivary Immunosensor. Journal of Life Support Engineering, 2018, 30, 75-81.	0.0	0

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55	Is it possible to develop a knit based-biosensor?. The Proceedings of Mechanical Engineering Congress Japan, 2019, 2019, J16109.	0.0	0
56	Microfabrication of re-entrant surface with oleophobicity. The Proceedings of Mechanical Engineering Congress Japan, 2020, 2020, J13103.	0.0	0
57	Impact of short-term storage of plasma samples on quantitation of ultra-low levels of interleukin-6. Journal of International Medical Research, 2021, 49, 030006052110568.	1.0	0
58	Effect of Hydrophobicity on Silicone Film with Spherical Curvature Structure on Water Droplet Freezing Process. The Proceedings of Mechanical Engineering Congress Japan, 2021, 2021, J111-15.	0.0	0
59	Direct-micro-fabrication of Reverse-tapered Hole by Femtosecond Pulsed Laser. The Proceedings of Mechanical Engineering Congress Japan, 2021, 2021, J111-06.	0.0	0