Kenta Matsumura

List of Publications by Year in descending order

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Version: 2024-02-01

74	1,111	471371	526166
papers	citations	17 h-index	27 g-index

77	77	77	1125
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison between red, green and blue light reflection photoplethysmography for heart rate monitoring during motion. , 2013, 2013, 1724-7.		81
2	iPhysioMeter: A new approach for measuring heart rate and normalized pulse volume using only a smartphone. Behavior Research Methods, 2013, 45, 1272-1278.	2.3	76
3	Cuffless blood pressure estimation using only a smartphone. Scientific Reports, 2018, 8, 7298.	1.6	76
4	Education level and risk of postpartum depression: results from the Japan Environment and Childrenâ€™s Study (JECS). BMC Psychiatry, 2019, 19, 419.	1.1	71
5	iPhone 4s Photoplethysmography: Which Light Color Yields the Most Accurate Heart Rate and Normalized Pulse Volume Using the iPhysioMeter Application in the Presence of Motion Artifact?. PLoS ONE, 2014, 9, e91205.	1.1	52
6	Understanding the relationship between postpartum depression one month and six months after delivery and mother-infant bonding failure one-year after birth: results from the Japan Environment and Children's study (JECS). Psychological Medicine, 2020, 50, 161-169.	2.7	40
7	Changes in the association between postpartum depression and mother-infant bonding by parity: Longitudinal results from the Japan Environment and Children's Study. Journal of Psychiatric Research, 2019, 110, 110-116.	1.5	36
8	Docosahexaenoic Acid for Selective Prevention of Posttraumatic Stress Disorder Among Severely Injured Patients. Journal of Clinical Psychiatry, 2015, 76, e1015-e1022.	1.1	34
9	Validation of normalized pulse volume in the outer ear as a simple measure of sympathetic activity using warm and cold pressor tests: towards applications in ambulatory monitoring. Physiological Measurement, 2013, 34, 359-375.	1.2	27
10	Effects of omega-3 polyunsaturated fatty acids on psychophysiological symptoms of post-traumatic stress disorder in accident survivors: A randomized, double-blind, placebo-controlled trial. Journal of Affective Disorders, 2017, 224, 27-31.	2.0	27
11	A novel photoplethysmography technique to derive normalized arterial stiffness as a blood pressure independent measure in the finger vascular bed. Physiological Measurement, 2011, 32, 1869-1883.	1.2	25
12	Factors influencing exclusive breastfeeding rates until 6Âmonths postpartum: the Japan Environment and Childrenâ€™s Study. Scientific Reports, 2021, 11, 6841.	1.6	24
13	Limited effect of omega-3 fatty acids on the quality of life in survivors of traumatic injury: A randomized, placebo-controlled trial. Prostaglandins Leukotrienes and Essential Fatty Acids, 2017, 127, 1-5.	1.0	22
14	Maternal dietary intake of fish and PUFAs and child neurodevelopment at 6 months and 1 year of age: a nationwide birth cohortâ€”the Japan Environment and Childrenâ€™s Study (JECS). American Journal of Clinical Nutrition, 2020, 112, 1295-1303.	2.2	22
15	The effect of competition on heart rate during kart driving: A field study. BMC Research Notes, 2011, 4, 342.	0.6	21
16	Factor structure of the Edinburgh Postnatal Depression Scale in the Japan Environment and Childrenâ€™s Study. Scientific Reports, 2020, 10, 11647.	1.6	21
17	Finger arterial compliance as determined by transmission of light during mental stress and reactive hyperaemia. European Journal of Applied Physiology, 2002, 87, 562-567.	1.2	19
18	Physiological measurements and analyses in motor sports: a preliminary study in racing kart athletes. European Journal of Sport Science, 2010, 10, 397-406.	1.4	19

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19	Advanced Volume-Compensation Method for Indirect Finger Arterial Pressure Determination: Comparison with Brachial Sphygmomanometry. IEEE Transactions on Biomedical Engineering, 2017, 64, 1131-1137.	2.5	19
20	Potential impact of propofol immediately after motor vehicle accident on later symptoms of posttraumatic stress disorder at 6-month follow up: a retrospective cohort study. Critical Care, 2012, 16, R196.	2.5	18
21	Side-scattered finger-photoplethysmography: experimental investigations toward practical noninvasive measurement of blood glucose. Journal of Biomedical Optics, 2017, 22, 067001.	1.4	18
22	Factors of non-responsive or lost-to-follow-up Japanese mothers during the first year post partum following the Japan Environment and Childrenâ€™s Study: a longitudinal cohort study. BMJ Open, 2019, 9, e031222.	0.8	18
23	Influence of parity and mode of delivery on motherâ€“infant bonding: The Japan Environment and Children's Study. Journal of Affective Disorders, 2020, 263, 516-520.	2.0	18
24	Dietary intake of fish and n-3 polyunsaturated fatty acids and risk of postpartum depression: a nationwide longitudinal study â€“ the Japan Environment and Children's Study (JECS). Psychological Medicine, 2020, 50, 2416-2424.	2.7	16
25	Association of blood cadmium levels in pregnant women with infant birth size and small for gestational age infants: The Japan Environment and Children's study. Environmental Research, 2020, 191, 110007.	3.7	16
26	RGB and Near-Infrared Light Reflectance/Transmittance Photoplethysmography for Measuring Heart Rate During Motion. IEEE Access, 2020, 8, 80233-80242.	2.6	16
27	Fish consumption and cardiovascular response during mental stress. BMC Research Notes, 2012, 5, 288.	0.6	14
28	Tachikawa project for prevention of posttraumatic stress disorder with polyunsaturated fatty acid (TPOP): study protocol for a randomized controlled trial. BMC Psychiatry, 2013, 13, 8.	1.1	14
29	Maternal exposure to smoking and infant's wheeze and asthma: Japan Environment and Children's Study. Allergology International, 2021, 70, 445-451.	1.4	13
30	iPhysioMeter: A Smartphone Photoplethysmograph for Measuring Various Physiological Indices. Methods in Molecular Biology, 2015, 1256, 305-326.	0.4	13
31	Omega-3 fatty acid intake during pregnancy and risk of infant maltreatment: a nationwide birth cohort â€“ the Japan Environment and Children's Study. Psychological Medicine, 2021, , 1-10.	2.7	12
32	Potential for Health Screening Using Long-Term Cardiovascular Parameters Measured by Finger Volume-Oscillometry: Pilot Comparative Evaluation in Regular and Sleep-Deprived Activities. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 28-35.	3.9	11
33	Impact of individual and neighborhood social capital on the physical and mental health of pregnant women: the Japan Environment and Childrenâ€™s Study (JECS). BMC Pregnancy and Childbirth, 2020, 20, 450.	0.9	11
34	Association of prenatal psychological distress and postpartum depression with varying physical activity intensity: Japan Environment and Childrenâ€™s Study (JECS). Scientific Reports, 2020, 10, 6390.	1.6	11
35	Cardiovascular hemodynamic effects of Red BullÂ® Energy Drink during prolonged, simulated, monotonous driving. SpringerPlus, 2013, 2, 215.	1.2	10
36	A Novel Method to Detect Heat Illness Under Severe Conditions by Monitoring Tympanic Temperature. Aviation, Space, and Environmental Medicine, 2013, 84, 692-700.	0.6	10

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37	Integrating Sphere Finger-Photoplethysmography: Preliminary Investigation towards Practical Non-Invasive Measurement of Blood Constituents. PLoS ONE, 2015, 10, e0143506.	1.1	10
38	Fermented foods and preterm birth risk from a prospective large cohort study: the Japan Environment and Childrenâ€™s study. Environmental Health and Preventive Medicine, 2019, 24, 25.	1.4	9
39	Association between maternal fermented food consumption and infant sleep duration: The Japan Environment and Children's Study. PLoS ONE, 2019, 14, e0222792.	1.1	8
40	Influence of infantsâ€™ feeding patterns and duration on mothersâ€™ postpartum depression: A nationwide birth cohort â€•The Japan Environment and Children's Study (JECS). Journal of Affective Disorders, 2021, 285, 152-159.	2.0	8
41	Association of cesarean birth with prevalence of functional constipation in toddlers at 3 years of age: results from the Japan Environment and Childrenâ€™s Study (JECS). BMC Pediatrics, 2021, 21, 419.	0.7	8
42	Causal model of the association of social support during pregnancy with a perinatal and postpartum depressive state: A nationwide birth cohort â€“ the Japan Environment and Children's Study. Journal of Affective Disorders, 2022, 300, 540-550.	2.0	8
43	Performance Measures of Alcohol-Induced Impairment: Towards a Practical Ignition-Interlock System for Motor Vehicles. Perceptual and Motor Skills, 2009, 109, 841-850.	0.6	7
44	Infant dietary intake of yogurt and cheese and gastroenteritis at 1 year of age: The Japan Environment and Childrenâ€™s Study. PLoS ONE, 2019, 14, e0223495.	1.1	7
45	Differential Effect of Two Mental Stress Tasks on Arterial Stiffness. Japanese Psychological Research, 2019, 61, 249-261.	0.4	7
46	Infantile Hemangioma and the Risk Factors in a Japanese Population: A Nationwide Longitudinal Studyâ€”The Japan Environment and Childrenâ€™s Study. Journal of Investigative Dermatology, 2021, 141, 2745-2748.e2.	0.3	7
47	The Effect of Omega-3 Fatty Acids on Psychophysiological Assessment for the Secondary Prevention of Posttraumatic Stress Disorder: An Open-Label Pilot Study. Global Journal of Health Science, 2011, 4, 3-9.	0.1	6
48	Development of a ubiquitous healthcare monitoring system combined with non-conscious and ambulatory physiological measurements and its application to medical care. , 2011, 2011, 8211-4.		6
49	Association between cesarean section and constipation in infants: the Japan Environment and Childrenâ€™s Study (JECS). BMC Research Notes, 2018, 11, 882.	0.6	6
50	Inter-Method Reliability of Pulse Volume Related Measures Derived Using Finger-Photoplethysmography. Journal of Psychophysiology, 2018, 32, 182-190.	0.3	6
51	Effect estimate of time-varying social support and trust on the physical and mental health of mothers at 2.5 years postpartum: The Japan Environment and Childrenâ€™s Study (JECS). Journal of Epidemiology, 2021, , .	1.1	5
52	Paternal childcare at 6 months and risk of maternal psychological distress at 1 year after delivery: The Japan Environment and Childrenâ€™s Study (JECS). European Psychiatry, 2021, 64, e38.	0.1	5
53	The association between chronic psychosocial stress, allostatic load, and vascular health in asymptomatic young men: A pilot study using a novel finger arterial stiffness index¹. Japanese Psychological Research, 2011, 53, 140-154.	0.4	4
54	Correlation between the Bayleyâ€III at 3â€‰years and the Wechsler Intelligence Scale for Children, Fourth Edition, at 6â€‰years. Pediatrics International, 2022, 64, .	0.2	4

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55	Controllability and hemodynamic reaction patterns during mental stress. Japanese Journal of Physiological Psychology and Psychophysiology, 2004, 22, 247-255.	0.0	3
56	Love Styles and Cardiovascular Responder Types. International Journal of Psychological Studies, 2011, 3, .	0.1	3
57	Prospective Association of Air-Purifier Usage during Pregnancy with Infant Neurodevelopment: A Nationwide Longitudinal Studyâ€"Japan Environment and Childrenâ€™s Study (JECS). Journal of Clinical Medicine, 2020, 9, 1924.	1.0	3
58	Towards Non-invasive Optical Blood Alcohol Measurement: Multi-variate Analysis of <i>in vitro</i> NIR Spectra. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 2059-2064.	0.1	3
59	Association between mothersâ€™ fish intake during pregnancy and infantsâ€™ sleep duration: a nationwide longitudinal studyâ€"The Japan Environment and Childrenâ€™s Study (JECS). European Journal of Nutrition, 2022, 61, 679-686.	1.8	3
60	Male intake of omega-3 fatty acids and risk of intimate partner violence perpetration: a nationwide birth cohort â€“ the Japan Environment and Children's Study. Epidemiology and Psychiatric Sciences, 2022, 31, .	1.8	3
61	Controlled mechanical vibration applied to driverâ€™s right heel to sustain alertness: Effects on cardiovascular behavior. Transportation Research Part C: Emerging Technologies, 2014, 38, 101-109.	3.9	2
62	House Dust Avoidance during Pregnancy and Subsequent Infant Development: The Japan Environment and Childrenâ€™s Study. International Journal of Environmental Research and Public Health, 2021, 18, 4277.	1.2	2
63	Prospective association of air purifier use during pregnancy with the neurodevelopment of toddlers in the Japan Environment and Childrenâ€™s Study. Scientific Reports, 2021, 11, 19454.	1.6	2
64	Impact of Low Ambient Temperature on the Occurrence of Spontaneous Intracerebral Hemorrhage-Analysis of Population-Based Stroke Registry in Toyama, Japan. Journal of Stroke and Cerebrovascular Diseases, 2022, 31, 106156.	0.7	2
65	Change in cholesterol level during pregnancy and risk of postpartum depressive symptoms: the Japan Environment and Children's Study (JECS). Acta Psychiatrica Scandinavica, 2022, 145, 268-277.	2.2	2
66	Impact of prematurity and the CTG repeat length on outcomes in congenital myotonic dystrophy. BMC Research Notes, 2020, 13, 350.	0.6	1
67	Finger arterial elasticity, a novel assessment of cardiovascular health: Gender differences and correlation with brachial-ankle pulse wave velocity. The Japanese Journal of Health Psychology, 2006, 19, 37-47.	0.1	1
68	Pet ownership during pregnancy and mothers' mental health conditions up to 1 year postpartum: A nationwide birth cohortâ€"the Japan environment and Children's study. Social Science and Medicine, 2022, , 115216.	1.8	1
69	Development of a new aortoscope system for the use of endovascular intervention. , 2012, 2012, 5765-8.		0
70	Finger arterial stiffness index as a marker of damaged small artery and arterioles in diabetes. Japanese Journal of Physiological Psychology and Psychophysiology, 2011, 29, 217-226.	0.0	0
71	Proposing a standard method of evaluation capabilities with performance-based vehicle ignition-interlock devices. The Japanese Journal of Cognitive Psychology, 2012, 9, 125-135.	0.1	0
72	Development of a Portable Transthoracic Admittance Cardiograph and Its Validation of Performance. IEEJ Transactions on Electronics, Information and Systems, 2014, 134, 41-48.	0.1	0

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73	A New, Non-Invasive in vivo Optical Blood Glucose Measurement Technique Using Near-Infrared Radiation (â€œPulse Glucometryâ€) and a Proposal for â€œPulse Hemo-Photometryâ€•Blood Constituent Measurements. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 18-26.	0.2	0
74	Predictors of non-response to successive waves of surveys in the Japan Environment and Childrenâ€™s Study during the 3-year postpartum period: a longitudinal cohort study. BMJ Open, 2022, 12, e050087.	0.8	0