

Mark J Van Gils

List of Publications by Year in descending order

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88
papers

2,689
citations

218592

26
h-index

206029

48
g-index

90
all docs

90
docs citations

90
times ranked

3856
citing authors

#	ARTICLE	IF	CITATIONS
1	Health monitoring in the home of the future. IEEE Engineering in Medicine and Biology Magazine, 2003, 22, 66-73.	1.1	384
2	Assessment of surgical stress during general anaesthesia. British Journal of Anaesthesia, 2007, 98, 447-455.	1.5	241
3	Telemonitoring and Mobile Phone-Based Health Coaching Among Finnish Diabetic and Heart Disease Patients: Randomized Controlled Trial. Journal of Medical Internet Research, 2015, 17, e153.	2.1	105
4	EEG spectral entropy, heart rate, photoplethysmography and motor responses to skin incision during sevoflurane anaesthesia. Acta Anaesthesiologica Scandinavica, 2005, 49, 284-292.	0.7	102
5	Glial Fibrillary Acidic Protein and Ubiquitin C-Terminal Hydrolase-L1 as Outcome Predictors in Traumatic Brain Injury. World Neurosurgery, 2016, 87, 8-20.	0.7	98
6	Use of Home Telemonitoring to Support Multidisciplinary Care of Heart Failure Patients in Finland: Randomized Controlled Trial. Journal of Medical Internet Research, 2014, 16, e282.	2.1	97
7	Standardized Handwriting to Assess Bradykinesia, Micrographia and Tremor in Parkinson's Disease. PLoS ONE, 2014, 9, e97614.	1.1	91
8	Spectral Entropy Monitoring Is Associated with Reduced Propofol Use and Faster Emergence in Propofol-Nitrous Oxide-Alfentanil Anesthesia. Anesthesiology, 2005, 103, 274-279.	1.3	90
9	Novel multiparameter approach for measurement of nociception at skin incision during general anaesthesia. British Journal of Anaesthesia, 2006, 96, 367-376.	1.5	81
10	The Levels of Glial Fibrillary Acidic Protein and Ubiquitin C-Terminal Hydrolase-L1 During the First Week After a Traumatic Brain Injury. Neurosurgery, 2016, 79, 456-464.	0.6	76
11	Glial Fibrillary Acidic Protein and Ubiquitin C-Terminal Hydrolase-L1 Are Not Specific Biomarkers for Mild CT-Negative Traumatic Brain Injury. Journal of Neurotrauma, 2017, 34, 1427-1438.	1.7	76
12	A Disease State Fingerprint for Evaluation of Alzheimer's Disease. Journal of Alzheimer's Disease, 2011, 27, 163-176.	1.2	75
13	Correlation of Blood Biomarkers and Biomarker Panels with Traumatic Findings on Computed Tomography after Traumatic Brain Injury. Journal of Neurotrauma, 2019, 36, 2178-2189.	1.7	56
14	Early Levels of Glial Fibrillary Acidic Protein and Neurofilament Light Protein in Predicting the Outcome of Mild Traumatic Brain Injury. Journal of Neurotrauma, 2019, 36, 1551-1560.	1.7	56
15	Evaluation of machine learning algorithms for health and wellness applications: A tutorial. Computers in Biology and Medicine, 2021, 132, 104324.	3.9	56
16	Weight Rhythms: Weight Increases during Weekends and Decreases during Weekdays. Obesity Facts, 2014, 7, 36-47.	1.6	51
17	Improved Classification of Alzheimer's Disease Data via Removal of Nuisance Variability. PLoS ONE, 2012, 7, e31112.	1.1	46
18	Quantitative EEG Parameters for Prediction of Outcome in Severe Traumatic Brain Injury: Development Study. Clinical EEG and Neuroscience, 2018, 49, 248-257.	0.9	45

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19	Spectral Entropy as a Measure of Hypnosis in Children. <i>Anesthesiology</i> , 2006, 104, 708-717.	1.3	42
20	Quantification of Epileptiform Electroencephalographic Activity during Sevoflurane Mask Induction. <i>Anesthesiology</i> , 2007, 107, 928-938.	1.3	41
21	Design and Application of a Generic Clinical Decision Support System for Multiscale Data. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 234-240.	2.5	40
22	Prediction models for dementia and neuropathology in the oldest old: the Vantaa 85+ cohort study. <i>Alzheimer's Research and Therapy</i> , 2019, 11, 11.	3.0	37
23	Detecting frontotemporal dementia syndromes using MRI biomarkers. <i>NeuroImage: Clinical</i> , 2019, 22, 101711.	1.4	35
24	Predicting AD Conversion: Comparison between Prodromal AD Guidelines and Computer Assisted PredictAD Tool. <i>PLoS ONE</i> , 2013, 8, e55246.	1.1	31
25	Relationship of Psychological and Physiological Variables in Long-Term Self-Monitored Data During Work Ability Rehabilitation Program. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009, 13, 141-151.	3.6	29
26	Entropy is more resistant to artifacts than bispectral index in brain-dead organ donors. <i>Intensive Care Medicine</i> , 2007, 33, 133-136.	3.9	26
27	The PredictAD project: development of novel biomarkers and analysis software for early diagnosis of the Alzheimer's disease. <i>Interface Focus</i> , 2013, 3, 20120072.	1.5	26
28	Spectral Entropy as a Measure of Hypnosis and Hypnotic Drug Effect of Total Intravenous Anesthesia in Children during Slow Induction and Maintenance. <i>Anesthesiology</i> , 2012, 116, 340-351.	1.3	26
29	Pharmacogenetics of Bleeding and Thromboembolic Events in Direct Oral Anticoagulant Users. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 110, 768-776.	2.3	25
30	Impact of a clinical decision support tool on prediction of progression in early-stage dementia: a prospective validation study. <i>Alzheimer's Research and Therapy</i> , 2019, 11, 25.	3.0	23
31	Automatically computed rating scales from MRI for patients with cognitive disorders. <i>European Radiology</i> , 2019, 29, 4937-4947.	2.3	23
32	Impact of a Clinical Decision Support Tool on Dementia Diagnostics in Memory Clinics: The PredictND Validation Study. <i>Current Alzheimer Research</i> , 2019, 16, 91-101.	0.7	23
33	Quantitative Evaluation of Disease Progression in a Longitudinal Mild Cognitive Impairment Cohort. <i>Journal of Alzheimer's Disease</i> , 2014, 39, 49-61.	1.2	21
34	Graphical Tasks to Measure Upper Limb Function in Patients With Parkinson's Disease: Validity and Response to Dopaminergic Medication. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017, 21, 283-289.	3.9	21
35	Disease-related determinants are associated with mortality in dementia due to Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2018, 10, 23.	3.0	20
36	Interleukin 10 and Heart Fatty Acid-Binding Protein as Early Outcome Predictors in Patients With Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2020, 11, 376.	1.1	20

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37	Automatic MRI Quantifying Methods in Behavioral-Variant Frontotemporal Dementia Diagnosis. <i>Dementia and Geriatric Cognitive Disorders Extra</i> , 2018, 8, 51-59.	0.6	19
38	Evaluating combinations of diagnostic tests to discriminate different dementia types. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 509-518.	1.2	19
39	Identification of Adequate Neurally Adjusted Ventilatory Assist (NAVA) During Systematic Increases in the NAVA Level. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 2598-2606.	2.5	16
40	The Narcotrend Index Indicates Age-Related Changes During Propofol Induction in Children. <i>Anesthesia and Analgesia</i> , 2009, 109, 53-59.	1.1	14
41	Software Tool for Improved Prediction of Alzheimer's Disease. <i>Neurodegenerative Diseases</i> , 2012, 10, 149-152.	0.8	14
42	Comparison of train-of-four ratios measured with Datex-Ohmeda's M-NMT MechanoSensor and M-NMT ElectroSensor. <i>Journal of Clinical Monitoring and Computing</i> , 2016, 30, 295-300.	0.7	14
43	Platform for systems medicine research and diagnostic applications in psychotic disorders: The METSY project. <i>European Psychiatry</i> , 2018, 50, 40-46.	0.1	14
44	Gait Disturbances are Associated with Increased Cognitive Impairment and Cerebrospinal Fluid Tau Levels in a Memory Clinic Cohort. <i>Journal of Alzheimer's Disease</i> , 2020, 76, 1061-1070.	1.2	13
45	Metabolic Profiles Help Discriminate Mild Cognitive Impairment from Dementia Stage in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2020, 74, 277-286.	1.2	13
46	Methods for Assessing Adequacy of Anesthesia. <i>Critical Reviews in Biomedical Engineering</i> , 2002, 30, 99-130.	0.5	13
47	Automatic feature selection and classification of physical and mental load using data from wearable sensors. , 2010, , .		12
48	Technical description of the IBIS Data Library. <i>Computer Methods and Programs in Biomedicine</i> , 2000, 63, 175-186.	2.6	11
49	Admission Levels of Total Tau and β -Amyloid Isoforms τ 40 and τ 42 in Predicting the Outcome of Mild Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2020, 11, 325.	1.1	11
50	Application of the PredictAD Software Tool to Predict Progression in Patients with Mild Cognitive Impairment. <i>Dementia and Geriatric Cognitive Disorders</i> , 2012, 34, 344-350.	0.7	10
51	A Decision Support System for Diagnostics and Treatment Planning in Traumatic Brain Injury. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 1261-1268.	3.9	10
52	Long-term Self-monitoring of Weight: A Case Study. <i>Cognitive Behaviour Therapy</i> , 2005, 34, 108-114.	1.9	9
53	Discovery and use of efficient biomarkers for objective disease state assessment in Alzheimer's disease. , 2010, 2010, 2886-9.		9
54	An ontology-based framework aiming to support personalized exercise prescription: Application in cardiac rehabilitation. , 2011, 2011, 1567-70.		9

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55	Detecting Amyloid Positivity in Elderly With Increased Risk of Cognitive Decline. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 228.	1.7	9
56	cCOG: A web-based cognitive test tool for detecting neurodegenerative disorders. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2020, 12, e12083.	1.2	9
57	Pharmacogenetics of Anticoagulation and Clinical Events in Warfarin-Treated Patients: A Register-Based Cohort Study with Biobank Data and National Health Registries in Finland. <i>Clinical Epidemiology</i> , 2021, Volume 13, 183-195.	1.5	9
58	Digitally Supported Lifestyle Intervention to Prevent Type 2 Diabetes Through Healthy Habits: Secondary Analysis of Long-Term User Engagement Trajectories in a Randomized Controlled Trial. <i>Journal of Medical Internet Research</i> , 2022, 24, e31530.	2.1	9
59	Admission Levels of Interleukin 10 and Amyloid β 40 Improve the Outcome Prediction Performance of the Helsinki Computed Tomography Score in Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2020, 11, 549527.	1.1	8
60	A personalized approach for predicting the effect of aerobic exercise on blood pressure using a Fuzzy Inference System. , 2011, 2011, 8299-302.		7
61	OPTImAL: an ontology for patient adherence modeling in physical activity domain. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 92.	1.5	7
62	Integrating data from multiple Finnish biobanks and national health-care registers for retrospective studies: Practical experiences. <i>Scandinavian Journal of Public Health</i> , 2022, 50, 482-489.	1.2	7
63	Detection of sleep-disordered breathing with Pressure Bed Sensor. , 2013, 2013, 1342-5.		6
64	Validation of prognostic biomarker scores for predicting progression of dementia in patients with amnesic mild cognitive impairment. <i>Nuclear Medicine Communications</i> , 2018, 39, 297-303.	0.5	6
65	Prediction of poor outcome using detector of epileptiform EEG in ICU patients resuscitated after cardiac arrest. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 3056-9.	0.5	5
66	Increased variation of the response index of nociception during noxious stimulation in patients during general anaesthesia. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 104, 154-160.	2.6	5
67	Distinguishing Parkinson's disease from other syndromes causing tremor using automatic analysis of writing and drawing tasks. , 2015, , .		5
68	A smart hospital-driven approach to precision pharmacovigilance. <i>Trends in Pharmacological Sciences</i> , 2022, 43, 473-481.	4.0	5
69	Modelling techniques and their application for monitoring in high dependency environments " learning models. <i>Computer Methods and Programs in Biomedicine</i> , 1996, 51, 75-84.	2.6	4
70	Method for the Automatic Detection of Epileptiform Waveforms in Sevoflurane-induced Anesthesia EEG. , 2006, 2006, 6343-6.		4
71	Reproducibility of standardized fine motor control tasks and age effects in healthy adults. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 114, 177-184.	2.5	4
72	A MATLAB toolbox for classification and visualization of heterogenous multi-scale human data using the Disease State Fingerprint method. <i>Studies in Health Technology and Informatics</i> , 2013, 189, 77-82.	0.2	4

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73	Procedures for Evaluating the Adequacy of Anesthesia. <i>Critical Reviews in Biomedical Engineering</i> , 2017, 45, 187-218.	0.5	3
74	Piloting a Smart Rollator: User experiences with technology-related motivation and physical activity. <i>Gerontechnology</i> , 2020, 20, 1-10.	0.0	3
75	Multivariate Prediction of Hippocampal Atrophy in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2019, 68, 1453-1468.	1.2	2
76	Improved monitoring for brain dysfunction in intensive care and surgery: introduction. <i>Computer Methods and Programs in Biomedicine</i> , 2000, 63, 157-159.	2.6	1
77	Entropy and bispectral index in brain-dead organ donors: authors' reply. <i>Intensive Care Medicine</i> , 2007, 33, 921-922.	3.9	1
78	Overview of Health Behavior Change Interventions to Promote Physical-activity-related Adherence in Patients with Heart Disease. <i>IFMBE Proceedings</i> , 2018, , 286-289.	0.2	1
79	Guided physical exercise of cardiac patients during rehabilitation: Adherence and changes in physiological variables. , 2013, , .		0
80	"The Levels of GFAP and UCH-L1 During the First Week After a Traumatic Brain Injury" Correlations With Clinical and Imaging Findings and Outcome. <i>Neurosurgery</i> , 2015, 62, 224.	0.6	0
81	[P1009]: DETECTING COGNITIVE DISORDERS USING THE MUISTIKKO WEB-BASED COGNITIVE TEST BATTERY: VALIDATION IN THREE COHORTS. <i>Alzheimer's and Dementia</i> , 2017, 13, P234.	0.4	0
82	P1328: CONSISTENCY OF MUISTIKKO WEB-BASED COGNITIVE TEST WHILE PERFORMED AT CLINIC AND AT HOME. <i>Alzheimer's and Dementia</i> , 2018, 14, P418.	0.4	0
83	P2350: DETECTING FRONTOTEMPORAL DEMENTIA USING A NOVEL MRI IMAGING BIOMARKER: THE ANTERIOR VERSUS POSTERIOR INDEX. <i>Alzheimer's and Dementia</i> , 2018, 14, P821.	0.4	0
84	P2349: DIFFERENT COMBINATIONS OF DIAGNOSTIC TESTS DISCRIMINATE SPECIFIC SUBTYPES OF DEMENTIA. <i>Alzheimer's and Dementia</i> , 2018, 14, P820.	0.4	0
85	Gait disturbances are associated with increased CSF tau levels in a memory clinic cohort. <i>Alzheimer's and Dementia</i> , 2020, 16, e040152.	0.4	0
86	Differential diagnosis of dementia combining web-based cognitive testing and MRI. <i>Alzheimer's and Dementia</i> , 2020, 16, e042626.	0.4	0
87	ENVISION "Improve intensive care of COVID-19 patients with artificial intelligence. <i>Finnish Journal of EHealth and EWellfare</i> , 2021, 13, .	0.0	0
88	DiHECO "Digital healthcare ecosystem research and networking. <i>Finnish Journal of EHealth and EWellfare</i> , 2022, 14, .	0.0	0