

Jan R Buitenweg

List of Publications by Year in descending order

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75
papers

1,577
citations

279701

23
h-index

345118

36
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78
all docs

78
docs citations

78
times ranked

1657
citing authors

#	ARTICLE	IF	CITATIONS
1	Anodal vs cathodal stimulation of motor cortex: A modeling study. <i>Clinical Neurophysiology</i> , 2007, 118, 464-474.	0.7	147
2	Somatosensory Symptoms and Signs and Conditioned Pain Modulation in Chronic Post-Stroke Shoulder Pain. <i>Journal of Pain</i> , 2011, 12, 476-485.	0.7	66
3	Measurement of sealing resistance of cell-electrode interfaces in neuronal cultures using impedance spectroscopy. <i>Medical and Biological Engineering and Computing</i> , 1998, 36, 630-637.	1.6	60
4	Persistent Shoulder Pain in the First 6 Months After Stroke: Results of a Prospective Cohort Study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2011, 92, 1139-1145.	0.5	60
5	Geometry-based finite-element modeling of the electrical contact between a cultured neuron and a microelectrode. <i>IEEE Transactions on Biomedical Engineering</i> , 2003, 50, 501-509.	2.5	59
6	Unveiling neural coupling within the sensorimotor system: directionality and nonlinearity. <i>European Journal of Neuroscience</i> , 2018, 48, 2407-2415.	1.2	56
7	Intermittent Stimulation Delays Adaptation to Electrocutaneous Sensory Feedback. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2007, 15, 435-441.	2.7	53
8	Influence of Attachment Pressure and Kinematic Configuration on pHRI with Wearable Robots. <i>Applied Bionics and Biomechanics</i> , 2009, 6, 157-173.	0.5	49
9	A General Approach for Quantifying Nonlinear Connectivity in the Nervous System Based on Phase Coupling. <i>International Journal of Neural Systems</i> , 2016, 26, 1550031.	3.2	49
10	Nonlinear Coupling between Cortical Oscillations and Muscle Activity during Isotonic Wrist Flexion. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 126.	1.2	45
11	Review: Bioelectrical Mechanisms in Spinal Cord Stimulation. <i>Neuromodulation</i> , 2015, 18, 161-170.	0.4	44
12	Determination of head conductivity frequency response in vivo with optimized EIT-EEG. <i>NeuroImage</i> , 2016, 127, 484-495.	2.1	41
13	The Effect of Pulse Width and Contact Configuration on Paresthesia Coverage in Spinal Cord Stimulation. <i>Neurosurgery</i> , 2011, 68, 1452-1461.	0.6	39
14	A Generalized Coherence Framework for Detecting and Characterizing Nonlinear Interactions in the Nervous System. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 2629-2637.	2.5	34
15	The role of intra-operative motor evoked potentials in the optimization of chronic cortical stimulation for the treatment of neuropathic pain. <i>Clinical Neurophysiology</i> , 2007, 118, 2287-2296.	0.7	33
16	Modeled channel distributions explain extracellular recordings from cultured neurons sealed to microelectrodes. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 1580-1590.	2.5	31
17	A system for inducing concurrent tactile and nociceptive sensations at the same site using electrocutaneous stimulation. <i>Behavior Research Methods</i> , 2012, 44, 924-933.	2.3	31
18	Extracellular stimulation window explained by a geometry-based model of the Neuron-electrode contact. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 1591-1599.	2.5	30

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19	Multimodal and Widespread Somatosensory Abnormalities in Persistent Shoulder Pain in the First 6 Months After Stroke: An Exploratory Study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2012, 93, 1968-1974.	0.5	30
20	Dynamic head-neck stabilization and modulation with perturbation bandwidth investigated using a multisegment neuromuscular model. <i>Journal of Biomechanics</i> , 2017, 58, 203-211.	0.9	30
21	Altered cortical somatosensory processing in chronic stroke: A relationship with post-stroke shoulder pain. <i>NeuroRehabilitation</i> , 2011, 28, 331-344.	0.5	29
22	Freebal: Design of a Dedicated Weight-Support System for Upper-Extremity Rehabilitation. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2009, 3, .	0.4	27
23	Single Pulse and Pulse Train Modulation of Cutaneous Electrical Stimulation: A Comparison of Methods. <i>Journal of Clinical Neurophysiology</i> , 2009, 26, 54-60.	0.9	26
24	Extracellular detection of active membrane currents in the neuron-electrode interface. <i>Journal of Neuroscience Methods</i> , 2002, 115, 211-221.	1.3	25
25	Nonlinear Connectivity in the Human Stretch Reflex Assessed by Cross-Frequency Phase Coupling. <i>International Journal of Neural Systems</i> , 2016, 26, 1650043.	3.2	25
26	Quantifying Nonlinear Contributions to Cortical Responses Evoked by Continuous Wrist Manipulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 481-491.	2.7	24
27	Triple Leads Programmed to Perform as Longitudinal Guarded Cathodes in Spinal Cord Stimulation: A Modeling Study. <i>Neuromodulation</i> , 2011, 14, 401-411.	0.4	21
28	Observation of time-dependent psychophysical functions and accounting for threshold drifts. <i>Attention, Perception, and Psychophysics</i> , 2015, 77, 1440-1447.	0.7	21
29	Tracking of nociceptive thresholds using adaptive psychophysical methods. <i>Behavior Research Methods</i> , 2014, 46, 55-66.	2.3	20
30	A Novel Approach for Modeling Neural Responses to Joint Perturbations Using the NARMAX Method and a Hierarchical Neural Network. <i>Frontiers in Computational Neuroscience</i> , 2018, 12, 96.	1.2	20
31	The effect of scaling physiological cross-sectional area on musculoskeletal model predictions. <i>Journal of Biomechanics</i> , 2015, 48, 1760-1768.	0.9	19
32	Controller synthesis and clinical exploration of wearable gyroscopic actuators to support human balance. <i>Scientific Reports</i> , 2020, 10, 10412.	1.6	19
33	Responsiveness of electrical nociceptive detection thresholds to capsaicin (8%) -induced changes in nociceptive processing. <i>Experimental Brain Research</i> , 2016, 234, 2505-2514.	0.7	18
34	Quantification of task-dependent cortical activation evoked by robotic continuous wrist joint manipulation in chronic hemiparetic stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 30.	2.4	18
35	The influence of transient spatial attention on the processing of intracutaneous electrical stimuli examined with ERPs. <i>Clinical Neurophysiology</i> , 2012, 123, 947-959.	0.7	17
36	Spatial resolution for EEG source reconstruction - A simulation study on SEPs. <i>Journal of Neuroscience Methods</i> , 2018, 301, 9-17.	1.3	17

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37	Tactile localization depends on stimulus intensity. <i>Experimental Brain Research</i> , 2014, 232, 597-607.	0.7	16
38	Dynamic Information Flow Based on EEG and Diffusion MRI in Stroke: A Proof-of-Principle Study. <i>Frontiers in Neural Circuits</i> , 2018, 12, 79.	1.4	16
39	Simultaneous tracking of psychophysical detection thresholds and evoked potentials to study nociceptive processing. <i>Behavior Research Methods</i> , 2020, 52, 1617-1628.	2.3	16
40	Subject-level differences in reported locations of cutaneous tactile and nociceptive stimuli. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 325.	1.0	14
41	Observation of Nociceptive Processing: Effect of Intra-Epidermal Electric Stimulus Properties on Detection Probability and Evoked Potentials. <i>Brain Topography</i> , 2021, 34, 139-153.	0.8	14
42	Effect of temporal stimulus properties on the nociceptive detection probability using intra-epidermal electrical stimulation. <i>Experimental Brain Research</i> , 2016, 234, 219-227.	0.7	13
43	Disentangling Somatosensory Evoked Potentials of the Fingers: Limitations and Clinical Potential. <i>Brain Topography</i> , 2018, 31, 498-512.	0.8	13
44	Associations between Hamstring Fatigue and Sprint Kinematics during a Simulated Football (Soccer) Match. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 2586-2595.	0.2	13
45	Staggered Transverse Tripoles With Quadripolar Lateral Anodes Using Percutaneous and Surgical Leads in Spinal Cord Stimulation. <i>Neurosurgery</i> , 2013, 72, 483-491.	0.6	12
46	An Inertial Measurement Unit Based Method to Estimate Hip and Knee Joint Kinematics in Team Sport Athletes on the Field. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	12
47	Interfacing With Alpha Motor Neurons in Spinal Cord Injury Patients Receiving Trans-spinal Electrical Stimulation. <i>Frontiers in Neurology</i> , 2020, 11, 493.	1.1	12
48	Comparison of Multi-Tensor Diffusion Models' Performance for White Matter Integrity Estimation in Chronic Stroke. <i>Frontiers in Neuroscience</i> , 2018, 12, 247.	1.4	11
49	Trunk stabilization during sagittal pelvic tilt: from trunk-on-pelvis to trunk-in-space due to vestibular and visual feedback. <i>Journal of Neurophysiology</i> , 2016, 115, 1381-1388.	0.9	9
50	Computational modeling of Adelta-fiber-mediated nociceptive detection of electrocutaneous stimulation. <i>Biological Cybernetics</i> , 2015, 109, 479-491.	0.6	8
51	Reproducibility of somatosensory spatial perceptual maps. <i>Experimental Brain Research</i> , 2013, 224, 417-427.	0.7	7
52	Performance of Transverse Tripoles vs. Longitudinal Tripoles With Anode Intensification (AI) in Spinal Cord Stimulation: Computational Modeling Study. <i>Neuromodulation</i> , 2014, 17, 457-464.	0.4	6
53	Targeted brain activation using an MR-compatible wrist torque measurement device and isometric motor tasks during functional magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2016, 34, 795-802.	1.0	6
54	Establishing the Role of Elbow Muscles by Evaluating Muscle Activation and Co-contraction Levels at Maximal External Rotation in Fastball Pitching. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 698592.	0.9	6

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55	Simultaneous measurement of intra-epidermal electric detection thresholds and evoked potentials for observation of nociceptive processing following sleep deprivation. <i>Experimental Brain Research</i> , 2022, 240, 631.	0.7	6
56	Impact of stimulus duration on motor unit thresholds and alternation in compound muscle action potential scans. <i>Clinical Neurophysiology</i> , 2021, 132, 323-331.	0.7	5
57	Combining Psychophysical and EEG Biomarkers for Improved Observation of Altered Nociceptive Processing in Failed Back Surgery Syndrome. , 2021, 2021, 174-177.		3
58	Suitability of Hydraulic Disk Brakes for Passive Actuation of Upper-Extremity Rehabilitation Exoskeleton. <i>Applied Bionics and Biomechanics</i> , 2009, 6, 103-114.	0.5	2
59	Estimation and Identifiability of Model Parameters in Human Nociceptive Processing Using Yes-No Detection Responses to Electrocutaneous Stimulation. <i>Frontiers in Psychology</i> , 2016, 7, 1884.	1.1	2
60	Simulating perinodal changes observed in immune-mediated neuropathies: impact on conduction in a model of myelinated motor and sensory axons. <i>Journal of Neurophysiology</i> , 2019, 122, 1036-1049.	0.9	2
61	Influence of biomechanical models on joint kinematics and kinetics in baseball pitching. <i>Sports Biomechanics</i> , 2021, 20, 96-108.	0.8	2
62	Multisine frequency modulation of intra-epidermal electric pulse sequences: A novel tool to study nociceptive processing. <i>Journal of Neuroscience Methods</i> , 2021, 353, 109106.	1.3	2
63	Novel surface electrode design for preferential activation of cutaneous nociceptors. <i>Journal of Neural Engineering</i> , 2022, , .	1.8	2
64	Observing Altered Nociceptive Detection Thresholds in Patients With Persistent Spinal Pain Syndrome Type 2 With a Dorsal Root Ganglion Stimulator. <i>Neuromodulation</i> , 2022, 25, 1006-1014.	0.4	2
65	Combined Evaluation of Nociceptive Detection Thresholds and Evoked Potentials during Conditioned Pain Modulation: A Feasibility Study. , 2021, 2021, 1427-1430.		2
66	Exploring Nociceptive Detection Thresholds Combined with Evoked Potentials in Patients with Diabetes Mellitus. , 2021, 2021, 1358-1361.		2
67	RELATIVE CONTRIBUTION OF DIFFERENT MUSCLE ENERGY CONSUMPTION PROCESSES IN AN ENERGY-BASED MUSCLE LOAD SHARING COST FUNCTION. <i>Journal of Mechanics in Medicine and Biology</i> , 2013, 13, 1350009.	0.3	1
68	Dependence of Nociceptive Detection Thresholds on Physiological Parameters and Capsaicin-Induced Neuroplasticity: A Computational Study. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 49.	1.2	1
69	Dynamic head-neck stabilization in cervical dystonia. <i>Clinical Biomechanics</i> , 2017, 42, 120-127.	0.5	1
70	Adaptation rate in joint dynamics depends on the time-varying properties of the environment. , 2018, , .		1
71	The Cortical Response Evoked by Robotic Wrist Perturbations Reflects Level of Proprioceptive Impairment After Stroke. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 695366.	1.0	1
72	Nociceptive Intra-epidermal Electric Stimulation Evokes Steady-State Responses in the Secondary Somatosensory Cortex. <i>Brain Topography</i> , 2022, 35, 169-181.	0.8	1

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73	Observation of nociceptive detection thresholds and cortical evoked potentials: Go/no-go versus two-interval forced choice. <i>Attention, Perception, and Psychophysics</i> , 2022, , .	0.7	1
74	Perturbation velocity affects linearly estimated neuromechanical wrist joint properties. <i>Journal of Biomechanics</i> , 2018, 74, 207-212.	0.9	0
75	Real-time estimation of perceptual thresholds based on the electroencephalogram using a deep neural network. <i>Journal of Neuroscience Methods</i> , 2022, 374, 109580.	1.3	0