

Stephen J Wilson

List of Publications by Year in descending order

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51
papers

1,579
citations

257450

24
h-index

302126

39
g-index

52
all docs

52
docs citations

52
times ranked

1647
citing authors

#	ARTICLE	IF	CITATIONS
1	Hip muscle atrophy in patients with acetabular labral joint pathology. <i>Clinical Anatomy</i> , 2020, 33, 538-544.	2.7	4
2	Investigation of the inherent left-right flow balancing of rotary total artificial hearts by means of a resistance box. <i>Artificial Organs</i> , 2020, 44, 584-593.	1.9	3
3	Dual-Modality Confocal Laser Feedback Tomography for Highly Scattering Medium. <i>IEEE Sensors Journal</i> , 2019, 19, 6134-6140.	4.7	8
4	A graphical method for comparing nocturnal oxygen saturation profiles in individuals and populations: Application to healthy infants and preterm neonates. <i>Pediatric Pulmonology</i> , 2018, 53, 645-655.	2.0	12
5	Determining Ethanol Content of Liquid Solutions Using Laser Feedback Interferometry with a Terahertz Quantum Cascade Laser. , 2018, 2, 1-4.		9
6	The relationship between partial upper-airway obstruction and inter-breath transition period during sleep. <i>Respiratory Physiology and Neurobiology</i> , 2017, 244, 32-40.	1.6	2
7	Concurrent Reflectance Confocal Microscopy and Laser Doppler Flowmetry to Improve Skin Cancer Imaging: A Monte Carlo Model and Experimental Validation. <i>Sensors</i> , 2016, 16, 1411.	3.8	10
8	Optical feedback effects on terahertz quantum cascade lasers: modelling and applications. , 2016, , .		1
9	A Compact Laser Imaging System for Concurrent Reflectance Confocal Microscopy and Laser Doppler Flowmetry. <i>IEEE Photonics Journal</i> , 2016, 8, 1-9.	2.0	8
10	Terahertz frequency quantum cascade lasers: Optical feedback effects and applications. , 2016, , .		1
11	THz QCL self-mixing interferometry for biomedical applications. , 2014, , .		1
12	High-contrast coherent terahertz imaging of porcine tissue via swept-frequency feedback interferometry. <i>Biomedical Optics Express</i> , 2014, 5, 3981.	2.9	41
13	A Hybrid Mock Circulation Loop for a Total Artificial Heart. <i>Artificial Organs</i> , 2014, 38, 775-782.	1.9	32
14	Modeling of a Rotary Blood Pump. <i>Artificial Organs</i> , 2014, 38, 182-190.	1.9	6
15	Hip flexor muscle size, strength and recruitment pattern in patients with acetabular labral tears compared to healthy controls. <i>Manual Therapy</i> , 2014, 19, 405-410.	1.6	35
16	On the feasibility of self-mixing interferometer sensing for detection of the surface electrocardiographic signal using a customized electro-optic phase modulator. <i>Physiological Measurement</i> , 2013, 34, 281-289.	2.1	19
17	Characterising non-linear dynamics in nocturnal breathing patterns of healthy infants using recurrence quantification analysis. <i>Computers in Biology and Medicine</i> , 2013, 43, 231-239.	7.0	0
18	Swept-frequency feedback interferometry using terahertz frequency QCLs: a method for imaging and materials analysis. <i>Optics Express</i> , 2013, 21, 22194.	3.4	91

#	ARTICLE	IF	CITATIONS
19	Coherent three-dimensional terahertz imaging through self-mixing in a quantum cascade laser. Applied Physics Letters, 2013, 103, .	3.3	45
20	Electrocardiographic signal detection using self-mixing interferometer technique with customized electro-optic phase modulator. , 2012, , .		2
21	Resistive vibration exercise during bed-rest reduces motor control changes in the lumbo-pelvic musculature. Journal of Electromyography and Kinesiology, 2012, 22, 21-30.	1.7	15
22	Application of recurrence quantification analysis to automatically estimate infant sleep states using a single channel of respiratory data. Medical and Biological Engineering and Computing, 2012, 50, 851-865.	2.8	23
23	Terahertz sensing and imaging using a quantum cascade laser. , 2011, , .		0
24	Evaluation of a commercially available automated sleep staging tool in healthy infants. Sleep and Biological Rhythms, 2011, 9, 112-116.	1.0	2
25	Demonstration of a self-mixing displacement sensor based on terahertz quantum cascade lasers. Applied Physics Letters, 2011, 99, .	3.3	63
26	A Magnetic Resonance Imaging Investigation of the Transversus Abdominis Muscle During Drawing-in of the Abdominal Wall in Elite Australian Football League Players With and Without Low Back Pain. Journal of Orthopaedic and Sports Physical Therapy, 2010, 40, 4-10.	3.5	57
27	Influence of prolonged bed-rest on spectral and temporal electromyographic motor control characteristics of the superficial lumbo-pelvic musculature. Journal of Electromyography and Kinesiology, 2010, 20, 170-179.	1.7	15
28	Rapid scanning flow sensor based on the self-mixing effect in a VCSEL. , 2010, , .		4
29	Characterising infant inter-breath interval patterns during active and quiet sleep using recurrence plot analysis. , 2009, 2009, 6284-7.		5
30	Altered response of the anterolateral abdominal muscles to simulated weight-bearing in subjects with low back pain. European Spine Journal, 2009, 18, 410-418.	2.2	90
31	Effect of prolonged bed rest on the anterior hip muscles. Gait and Posture, 2009, 30, 533-537.	1.4	25
32	Investigation of Pulse Transit Time Characteristics During Single and Recurrent Obstructive Respiratory Events. Journal of Clinical Monitoring and Computing, 2008, 22, 327-332.	1.6	2
33	Effects of poorly perfused peripheries on derived transit time parameters of the lower and upper limbs. Biomedizinische Technik, 2008, 53, 156-159.	0.8	3
34	Photoplethysmographic Assessment of Hemodynamic Variations Using Pulsatile Tissue Blood Volume. Angiology, 2008, 59, 745-752.	1.8	5
35	Resistive Simulated Weightbearing Exercise With Whole Body Vibration Reduces Lumbar Spine Deconditioning in Bed-Rest. Spine, 2008, 33, E121-E131.	2.0	67
36	Assessment of Abdominal Muscle function During a Simulated Unilateral Weight-Bearing Task Using Ultrasound Imaging. Journal of Orthopaedic and Sports Physical Therapy, 2007, 37, 467-471.	3.5	48

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37	Tonic-to-phasic shift of lumbo-pelvic muscle activity during 8 weeks of bed rest and 6-months follow up. <i>Journal of Applied Physiology</i> , 2007, 103, 48-54.	2.5	24
38	Superficial Lumbopelvic Muscle Overactivity and Decreased Cocontraction After 8 Weeks of Bed Rest. <i>Spine</i> , 2007, 32, E23-E29.	2.0	25
39	Magnetic Resonance Imaging Assessment of Trunk Muscles During Prolonged Bed Rest. <i>Spine</i> , 2007, 32, 1687-1692.	2.0	116
40	A computational system to optimise noise rejection in photoplethysmography signals during motion or poor perfusion states. <i>Medical and Biological Engineering and Computing</i> , 2006, 44, 140-145.	2.8	67
41	Screening of obstructive and central apnoea/hypopnoea in children using variability: A preliminary study. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2006, 95, 561-564.	1.5	0
42	Screening of obstructive and central apnoea/hypopnoea in children using variability: A preliminary study. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2006, 95, 561-564.	1.5	26
43	Use of Pulse Transit Time To Distinguish Respiratory Events From Tidal Breathing in Sleeping Children. <i>Chest</i> , 2005, 128, 3013-3019.	0.8	27
44	Predictive regression equations and clinical uses of peripheral pulse timing characteristics in children. <i>Physiological Measurement</i> , 2005, 26, 317-328.	2.1	21
45	Pulse transit time changes observed with different limb positions. <i>Physiological Measurement</i> , 2005, 26, 1093-1102.	2.1	28
46	Variability in time delay between two models of pulse oximeters for deriving the photoplethysmographic signals. <i>Physiological Measurement</i> , 2005, 26, 531-544.	2.1	24
47	Brain activity during automatic semantic priming revealed by event-related functional magnetic resonance imaging. <i>NeuroImage</i> , 2003, 20, 302-310.	4.2	112
48	Orthographic/Phonological Facilitation of Naming Responses in the Picture?Word Task: An Event-Related fMRI Study Using Overt Vocal Responding. <i>NeuroImage</i> , 2002, 16, 1084-1093.	4.2	75
49	The semantic interference effect in the picture-word paradigm: An event-related fMRI study employing overt responses. <i>Human Brain Mapping</i> , 2001, 14, 218-227.	3.6	161
50	High resolution high field rodent cardiac imaging with flow enhancement suppression. <i>Magnetic Resonance Imaging</i> , 1994, 12, 1183-1190.	1.8	32
51	Respiratory triggered imaging with an optical displacement sensor. <i>Magnetic Resonance Imaging</i> , 1993, 11, 1027-1032.	1.8	25