Dan L Bader

List of Publications by Year
in descending order

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99 papers	2,733 citations	293460 24 h-index	223390 49 g-index
101 all docs	101 docs citations	101 times ranked	1925 citing authors

#	Article	IF	Citations
1	Quantifying skin sensitivity caused by mechanical insults: A review. Skin Research and Technology, 2022, 28, 187-199.	0.8	3
2	Development of ultraâ€highâ€performance supercritical fluid chromatographyâ€mass spectrometry assays to analyze potential biomarkers in sweat. Journal of Separation Science, 2022, 45, 542-550.	1.3	2
3	An Exploratory Study of the Effects of the pH of Synthetic Urine on Skin Integrity in Healthy Participants. Skin Pharmacology and Physiology, 2022, 35, 166-173.	1.1	3
4	The last hurrah. Journal of Tissue Viability, 2022, 31, 373.	0.9	2
5	Analysis of lower limb prosthetic socket interface based on stress and motion measurements. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 1349-1356.	1.0	3
6	Reflections on pressure ulcers. Journal of Tissue Viability, 2021, 30, 1-2.	0.9	0
7	The identification of biophysical parameters which reflect skin status following mechanical and chemical insults. Clinical Physiology and Functional Imaging, 2021, 41, 366-375.	0.5	8
8	Detection of posture and mobility in individuals at risk of developing pressure ulcers. Medical Engineering and Physics, 2021, 91, 39-47.	0.8	5
9	Investigating the release of inflammatory cytokines in a human model of incontinence-associated dermatitis. Journal of Tissue Viability, 2021, 30, 427-433.	0.9	9
10	Anatomical variability of sub-epidermal moisture and its clinical implications. Journal of Tissue Viability, 2021, 30, 434-438.	0.9	9
11	A combined experimental and computational approach to evaluate microclimate control at the support surface interface. Journal of Tissue Viability, 2021, 30, 395-401.	0.9	4
12	Personal protective equipment related skin reactions in healthcare professionals during <scp>COVID</scp>â€19. International Wound Journal, 2021, 18, 312-322.	1.3	54
13	Elevated Skin pH Is Associated With an Increased Permeability to Synthetic Urine. Journal of Wound, Ostomy and Continence Nursing, 2021, 48, 61-67.	0.6	7
14	It is time to be â€œcoolâ€•about maintaining skin integrity. Journal of Tissue Viability, 2021, 30, 465.	0.9	0
15	The trouble with footwear following stroke: a qualitative study of the views and experience of people with stroke. Disability and Rehabilitation, 2020, 42, 1107-1114.	0.9	5
16	Establishing a measurement array to assess tissue tolerance during loading representative of prosthetic use. Medical Engineering and Physics, 2020, 78, 39-47.	0.8	8
17	Magnetic resonance imaging to estimate tissue deformations during penile clamp application: A case series. Journal of Clinical Urology, 2020, 13, 402-406.	0.1	0
18	Editorial for special issue â€œCartilage biomechanicsâ€• Clinical Biomechanics, 2020, 79, 105096.	0.5	0

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19	Biomechanical monitoring and machine learning for the detection of lying postures. Clinical Biomechanics, 2020, 80, 105181.	0.5	8
20	Evaluating the effects of sedentary behaviour on plantar skin health in people with diabetes. Journal of Tissue Viability, 2020, 29, 277-283.	0.9	7
21	COVID19: Challenging tissue viability in both patients and clinicians. Journal of Tissue Viability, 2020, 29, 153-154.	0.9	9
22	Knowledge Gaps in the Etiology and Pathophysiology of Incontinence-Associated Dermatitis. Journal of Wound, Ostomy and Continence Nursing, 2020, 47, 388-395.	0.6	16
23	An evaluation of dermal microcirculatory occlusion under repeated mechanical loads: Implication of lymphatic impairment in pressure ulcers. Microcirculation, 2020, 27, e12645.	1.0	7
24	3D models of chondrocytes within biomimetic scaffolds: Effects of cell deformation from loading regimens. Clinical Biomechanics, 2020, 79, 104972.	0.5	2
25	Pressure ulceration. , 2020, , 391-402.		0
26	A modified evaluation of spacer fabric and airflow technologies for controlling the microclimate at the loaded support interface. Textile Reseach Journal, 2019, 89, 2154-2162.	1.1	19
27	Tissue response to applied loading using different designs of penile compression clamps . Medical Devices: Evidence and Research, 2019, Volume 12, 235-243.	0.4	0
28	The expression of anaerobic metabolites in sweat and sebum from human skin subjected to intermittent and continuous mechanical loading. Journal of Tissue Viability, 2019, 28, 186-193.	0.9	11
29	Myoglobin and troponin concentrations are increased in early stage deep tissue injury. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 92, 50-57.	1.5	14
30	How consistent and effective are current repositioning strategies for pressure ulcer prevention?. Applied Nursing Research, 2019, 48, 58-62.	1.0	9
31	A sensitivity analysis to evaluate the performance of temporal pressure - related parameters in detecting changes in supine postures. Medical Engineering and Physics, 2019, 69, 33-42.	0.8	6
32	An interprofessional approach to pressure ulcer prevention: a knowledge and attitudes evaluation . Journal of Multidisciplinary Healthcare, 2019, Volume 12, 377-386.	1.1	17
33	Bioengineering considerations in the prevention of medical device-related pressure ulcers. Clinical Biomechanics, 2019, 67, 70-77.	0.5	41
34	There is an individual tolerance to mechanical loading in compression induced deep tissue injury. Clinical Biomechanics, 2019, 63, 153-160.	0.5	10
35	Investigating the influence of intermittent and continuous mechanical loading on skin through non-invasive sampling of IL-1Î±. Journal of Tissue Viability, 2019, 28, 1-6.	0.9	23
36	Technologies to monitor the health of loaded skin tissues. BioMedical Engineering OnLine, 2018, 17, 40.	1.3	59

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37	Monitoring the biomechanical and physiological effects of postural changes during leisure chair sitting. Journal of Tissue Viability, 2018, 27, 16-22.	0.9	15
38	MRI based 3D finite element modelling to investigate deep tissue injury. Computer Methods in Biomechanics and Biomedical Engineering, 2018, 21, 760-769.	0.9	7
39	Investigating the effects of cervical collar design and fit on the biomechanical and biomarker reaction at the skin. Medical Devices: Evidence and Research, 2018, Volume 11, 87-94.	0.4	22
40	Response to Letter from Abraham and colleagues, regarding â€œMonitoring the biomechanical and physiological effects of postural changes during leisure chair sittingâ€• Journal of Tissue Viability, 2018, 27, 189.	0.9	0
41	An advanced magnetic resonance imaging perspective on the etiology of deep tissue injury. Journal of Applied Physiology, 2018, 124, 1580-1596.	1.2	16
42	The Potential of Biomarkers in theÂEarly Detection of Pressure Ulcers. , 2018, , 1-15.		10
43	A randomised cross over study to evaluate the performance of a novel ankle dorsiflexion measurement device for novice users. Journal of Foot and Ankle Research, 2018, 11, 45.	0.7	4
44	Ultrasonography Detects Deep Tissue Injuries in the Subcutaneous Layers of the Buttocks Following Spinal Cord Injury. Topics in Spinal Cord Injury Rehabilitation, 2018, 24, 371-378.	0.8	10
45	Identifying barriers and facilitators to participation in pressure ulcer prevention in allied healthcare professionals: a mixed methods evaluation. Physiotherapy, 2017, 103, 304-310.	0.2	18
46	Does leg predomination affect measuring vasti muscle onsets during single leg squatting? A reliability study. Journal of Bodywork and Movement Therapies, 2017, 21, 763-766.	0.5	1
47	Development of a residuum/socket interface simulator for lower limb prosthetics. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 235-242.	1.0	18
48	Penile compression clamps: A model of the internal mechanical state of penile soft tissues. Neurourology and Urodynamics, 2017, 36, 1645-1650.	0.8	16
49	Pressure signatures can influence tissue response for individuals supported on an alternating pressure mattress. Journal of Tissue Viability, 2017, 26, 180-188.	0.9	17
50	A combined kinematic and kinetic analysis at the residuum/socket interface of a knee-disarticulation amputee. Medical Engineering and Physics, 2017, 49, 131-139.	0.8	16
51	Cytokine IL1Î± and lactate as markers for tissue damage in spineboard immobilisation. A prospective, randomised open-label crossover trial. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 82-88.	1.5	20
52	Investigating the Short-Term Effects of Manual Lymphatic Drainage and Compression Garment Therapies on Lymphatic Function Using Near-Infrared Imaging. Lymphatic Research and Biology, 2017, 15, 235-240.	0.5	26
53	Investigating the effects of strap tension during non-invasive ventilation mask application: a combined biomechanical and biomarker approach. Medical Devices: Evidence and Research, 2016, Volume 9, 409-417.	0.4	34
54	Predicting the optimal geometry of microneedles and their array for dermal vaccination using a computational model. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1599-1609.	0.9	23

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55	A pressure and shear sensor system for stress measurement at lower limb residuum/socket interface. Medical Engineering and Physics, 2016, 38, 695-700.	0.8	62
56	Penetration and delivery characteristics of repetitive microjet injection into the skin. Journal of Controlled Release, 2016, 234, 98-103.	4.8	29
57	What's in a name?. Journal of Tissue Viability, 2016, 25, 191-192.	0.9	4
58	A survey exploring selfâ€reported indoor and outdoor footwear habits, foot problems and fall status in people with stroke and Parkinson's. Journal of Foot and Ankle Research, 2016, 9, 39.	0.7	16
59	Monitoring contractile dermal lymphatic activity following uniaxial mechanical loading. Medical Engineering and Physics, 2016, 38, 895-903.	0.8	17
60	An evaluation of fluid immersion therapy for the prevention of pressure ulcers. Clinical Biomechanics, 2016, 40, 27-32.	0.5	16
61	Does leg predomination affect the measurement of vasti muscle activity during single leg squatting? A reliability study. Journal of Bodywork and Movement Therapies, 2016, 20, 728-733.	0.5	3
62	Features of lymphatic dysfunction in compressed skin tissues â€“ Implications inÂpressure ulcer aetiology. Journal of Tissue Viability, 2016, 25, 26-31.	0.9	20
63	How does lateral tilting affect the internal strains in the sacral region of bed ridden patients? â€” A contribution to pressure ulcer prevention. Clinical Biomechanics, 2016, 35, 7-13.	0.5	20
64	A theoretical compartment model for antigen kinetics in the skin. European Journal of Pharmaceutical Sciences, 2016, 84, 18-25.	1.9	4
65	A new method to evaluate the effects of shear on the skin. Wound Repair and Regeneration, 2015, 23, 885-890.	1.5	36
66	The physiological response of soft tissue to periodic repositioning as a strategy for pressure ulcer prevention. Clinical Biomechanics, 2015, 30, 166-174.	0.5	26
67	A Review of the Role of the Partial Pressure of Carbon Dioxide in Mechanically Loaded Tissues: The Canary in the Cage Singing in Tune with the Pressure Ulcer Mantra. Annals of Biomedical Engineering, 2015, 43, 336-347.	1.3	13
68	Development and validation of a 3D-printed interfacial stress sensor for prosthetic applications. Medical Engineering and Physics, 2015, 37, 132-137.	0.8	106
69	Unified viscoelasticity: Applying discrete element models to soft tissues with two characteristic times. Journal of Biomechanics, 2015, 48, 3128-3134.	0.9	8
70	Diffusion profile of macromolecules within and between human skin layers for (trans)dermal drug delivery. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 50, 215-222.	1.5	21
71	Characterisation of dynamic couplings at lower limb residuum/socket interface using 3D motion capture. Medical Engineering and Physics, 2015, 37, 1162-1168.	0.8	24
72	Paper-based colorimetric enzyme linked immunosorbent assay fabricated by laser induced forward transfer. Biomicrofluidics, 2014, 8, 036502.	1.2	24

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73	Developing a pressure ulcer risk factor minimum data set and risk assessment framework. Journal of Advanced Nursing, 2014, 70, 2339-2352.	1.5	55
74	A new pressure ulcer conceptual framework. Journal of Advanced Nursing, 2014, 70, 2222-2234.	1.5	271
75	Design and validation of an in vitro loading system for the combined application of cyclic compression and shear to 3D chondrocytes-seeded agarose constructs. Medical Engineering and Physics, 2014, 36, 534-540.	0.8	14
76	The conference season. Journal of Tissue Viability, 2014, 23, 47.	0.9	0
77	The physiological response of skin tissues to alternating support pressures in able-bodied subjects. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 28, 427-435.	1.5	32
78	A numerical study to analyse the risk for pressure ulcer development on a spine board. Clinical Biomechanics, 2013, 28, 736-742.	0.5	48
79	Reliability testing of vasti activity measurements in taped and untaped patellofemoral conditions during single leg squatting in healthy subjects: A pilot study. Journal of Bodywork and Movement Therapies, 2013, 17, 271-277.	0.5	9
80	How does muscle stiffness affect the internal deformations within the soft tissue layers of the buttocks under constant loading?. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 520-529.	0.9	25
81	Plasma variations of biomarkers for muscle damage in male nondisabled and spinal cord injured subjects. Journal of Rehabilitation Research and Development, 2012, 49, 361.	1.6	20
82	Does leg predomination affect the measurement of patellofemoral joint reaction force (PFJRF) during single leg squatting?: A reliability study. Journal of Bodywork and Movement Therapies, 2012, 16, 294-299.	0.5	1
83	Raising the bar. Journal of Tissue Viability, 2012, 21, 103-104.	0.9	0
84	A reactionâ€“diffusion model to predict the influence of neo-matrix on the subsequent development of tissue-engineered cartilage. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 425-432.	0.9	17
85	Reliability testing of the patellofemoral joint reaction force (PFJRF) measurement in taped and untaped patellofemoral conditions during single leg squatting: A pilot study. Journal of Bodywork and Movement Therapies, 2011, 15, 502-506.	0.5	2
86	Itâ€™s all change for the new editor â€“ Not another bioengineer. Journal of Tissue Viability, 2011, 20, 1-2.	0.9	14
87	The importance of internal strain as opposed to interface pressure in the prevention of pressure related deep tissue injury. Journal of Tissue Viability, 2010, 19, 35-42.	0.9	78
88	Tissue Engineered Models: A Valuable Tool in Pressure Ulcer Research. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2009, , 249-262.	0.7	1
89	Strain-time cell-death threshold for skeletal muscle in a tissue-engineered model system for deep tissue injury. Journal of Biomechanics, 2008, 41, 2003-2012.	0.9	153
90	Compression-induced damage and internal tissue strains are related. Journal of Biomechanics, 2008, 41, 3399-3404.	0.9	115

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91	Temporal differences in the influence of ischemic factors and deformation on the metabolism of engineered skeletal muscle. Journal of Applied Physiology, 2007, 103, 464-473.	1.2	91
92	Role of ischemia and deformation in the onset of compression-induced deep tissue injury: MRI-based studies in a rat model. Journal of Applied Physiology, 2007, 102, 2002-2011.	1.2	146
93	The Relative Contributions of Compression and Hypoxia to Development of Muscle Tissue Damage: An In Vitro Study. Annals of Biomedical Engineering, 2007, 35, 273-284.	1.3	138
94	A new MR-compatible loading device to study in vivo muscle damage development in rats due to compressive loading. Medical Engineering and Physics, 2006, 28, 331-338.	0.8	36
95	Biochemical Status of Soft Tissues Subjected to Sustained Pressure. , 2005, , 109-127.		4
96	Can Loaded Interface Characteristics Influence Strain Distributions in Muscle Adjacent to Bony Prominences?. Computer Methods in Biomechanics and Biomedical Engineering, 2003, 6, 171-180.	0.9	153
97	Establishing predictive indicators for the status of loaded soft tissues. Journal of Applied Physiology, 2001, 90, 2231-2237.	1.2	76
98	The viability of soft tissues in elderly subjects undergoing hip surgery. Age and Ageing, 1998, 27, 217-221.	0.7	24
99	The recovery characteristics of soft tissues following repeated loading. Journal of Rehabilitation Research and Development, 1990, 27, 141.	1.6	101