Amit Gefen

List of Publications by Year
in descending order

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341	14,104	39113	32181
papers	citations	52 h-index	105 g-index

347	347	347	13545
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	How Should Clinical Wound Care and Management Translate to Effective Engineering Standard Testing Requirements from Foam Dressings? Mapping the Existing Gaps and Needs. Advances in Wound Care, 2024, 13, 34-52.	2.6	17
2	Application of Artificial Intelligence Methodologies to Chronic Wound Care and Management: A Scoping Review. Advances in Wound Care, 2023, 12, 205-240.	2.6	11
3	Effective negative pressure wound therapy for open wounds: The importance of consistent pressure delivery. International Wound Journal, 2023, 20, 328-344.	1.3	5
4	Fluid management and strength postsimulated use of primary and secondary dressings for treating diabetic foot ulcers: Robotic phantom studies. International Wound Journal, 2022, 19, 305-315.	1.3	11
5	What makes a hydrogelâ€based dressing advantageous for the prevention of medical deviceâ€related pressure ulcers. International Wound Journal, 2022, 19, 515-530.	1.3	14
6	Our contemporary understanding of the aetiology of pressure ulcers/pressure injuries. International Wound Journal, 2022, 19, 692-704.	1.3	80
7	Computational studies of the biomechanical efficacy of a minimum tissue deformation mattress in protecting from sacral pressure ulcers in a supine position. International Wound Journal, 2022, 19, 1111-1120.	1.3	4
8	A machine learning algorithm for early detection of heel deep tissue injuries based on a daily history of subâ€epidermal moisture measurements. International Wound Journal, 2022, 19, 1339-1348.	1.3	8
9	The potential of a canisterâ€based singleâ€use negativeâ€pressure wound therapy system delivering a greater and continuous absolute pressure level to facilitate better surgical wound care. International Wound Journal, 2022, , .	1.3	2
10	The performance of gelling fibre wound dressings under clinically relevant robotic laboratory tests. International Wound Journal, 2022, 19, 3-21.	1.3	9
11	Fluid Handling Dynamics and Durability of Silver-Containing Gelling Fiber Dressings Tested in a Robotic Wound System. Advances in Skin and Wound Care, 2022, 35, 326-334.	0.5	10
12	The biomechanical efficacy of a dressing with a soft cellulose fluff core in protecting prone surgical patients from chest injuries on the operating table. International Wound Journal, 2022, 19, 1786-1796.	1.3	4
13	The fluid handling performance of the curea <scp>P1</scp> multipurpose dressing against superabsorbent and foam dressing technologies. International Wound Journal, 2022, 19, 945-956.	1.3	5
14	Alternatives and preferences for materials in use for pressure ulcer prevention: An experimentâ€reinforced literature review. International Wound Journal, 2022, 19, 1797-1809.	1.3	10
15	Device-related pressure ulcers: SECURE prevention. Second edition. Journal of Wound Care, 2022, 31, S1-S72.	0.5	24
16	Clinical research on the use of bordered foam dressings in the treatment of complex wounds: A systematic review of reported outcomes and applied measurement instruments. Journal of Tissue Viability, 2022, 31, 514-522.	0.9	9
17	The vision and scope of the prophylactic dressing standard initiative of the <scp>European Pressure Ulcer Advisory Panel and National Pressure Injury Advisory Panel</scp>. International Wound Journal, 2022, 19, 963-964.	1.3	3
18	Simulation of the biomechanical effects induced by laser in situ keratomileusis (LASIK) for different levels of ablation in normal corneas. Eye, 2021, 35, 996-1001.	1.1	2

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19	The sorptivity and durability of gelling fibre dressings tested in a simulated sacral pressure ulcer system. International Wound Journal, 2021, 18, 194-208.	1.3	20
20	A novel system for dynamic stretching of cell cultures reveals the mechanobiology for delivering better negative pressure wound therapy. Biomechanics and Modeling in Mechanobiology, 2021, 20, 193-204.	1.4	6
21	Computational modeling of the plantar tissue stresses induced by the clinical practice of off-loading of the diabetic foot. , 2021, , 35-42.		0
22	Modeling effects of sustained bodyweight forces on adipose tissue microstructures and adipocytes in diabesity. , 2021, , 43-61.		0
23	Threeâ€dimensional shapeâ€conformation performances of wound dressings tested in a robotic sacral pressure ulcer phantom. International Wound Journal, 2021, 18, 670-680.	1.3	15
24	The mechanobiology theory of the development of medical device-related pressure ulcers revealed through a cell-scale computational modeling framework. Biomechanics and Modeling in Mechanobiology, 2021, 20, 851-860.	1.4	20
25	How influential is the stiffness of the foam dressing on soft tissue loads in negative pressure wound therapy?. Medical Engineering and Physics, 2021, 89, 33-41.	0.8	3
26	Foreword: the prospects of new silicone-based biomaterial technologies in stoma care. British Journal of Nursing, 2021, 30, 5-6.	0.3	0
27	Finite element-based method for determining an optimal offloading design for treating and preventing heel ulcers. Computers in Biology and Medicine, 2021, 131, 104261.	3.9	11
28	Gravity Is Our Best Friend Yet Can Also Be Our Worst Enemy: Tissue Deformations and Pressure Ulcer Risk on the Operating Table. Journal of Elasticity, 2021, 145, 153-162.	0.9	2
29	Evaluation of facial tissue stresses under medical devices post application of a cyanoacrylate liquid skin protectant: An integrated experimentalâ€computational study. International Wound Journal, 2021, , .	1.3	2
30	Physiological measurements of facial skin response under personal protective equipment. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 120, 104566.	1.5	16
31	The aetiology of medical device-related pressure ulcers and how to prevent them. British Journal of Nursing, 2021, 30, S24-S30.	0.3	12
32	Clinical Biomechanics is 35Âyears old: Protecting and growing a legacy. Clinical Biomechanics, 2021, 88, 105446.	0.5	0
33	Not all superabsorbent wound dressings are born equal: theory and experiments. Journal of Wound Care, 2021, 30, 738-750.	0.5	6
34	Skin damage prevention in the prone ventilated critically ill patient: A comprehensive review and gap analysis (PRONEtect study). Journal of Tissue Viability, 2021, 30, 466-477.	0.9	13
35	The biomechanical efficacy of a hydrogelâ€based dressing in preventing facial medical deviceâ€related pressure ulcers. International Wound Journal, 2021, , .	1.3	8
36	Physiological processes of inflammation and edema initiated by sustained mechanical loading in subcutaneous tissues: A scoping review. Wound Repair and Regeneration, 2020, 28, 242-265.	1.5	22

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37	Which endotracheal tube location minimises the deviceâ€related pressure ulcer risk: The centre or a corner of the mouth?. International Wound Journal, 2020, 17, 268-276.	1.3	17
38	Heel ulcers. , 2020, , 123-139.		2
39	Biomechanical aspects of skin agingâ€"the risk of skin breakdown under shear loading increases with age. , 2020, , 309-335.		0
40	COVID-19: pressure ulcers, pain and the cytokine storm. Journal of Wound Care, 2020, 29, 540-542.	0.5	35
41	Prevention of skin damage caused by the protective equipment used to mitigate COVID-19: monthly update. Journal of Wound Care, 2020, 29, 379-379.	0.5	6
42	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
43	The subepidermal moisture scanner: the technology explained. Journal of Wound Care, 2020, 29, S4-S9.	0.5	1
44	Results of Laboratory Testing for Immersion, Envelopment, and Horizontal Stiffness on Turn and Position Devices to Manage Pressure Injury. Advances in Skin and Wound Care, 2020, 33, S11-S22.	0.5	5
45	The biomechanical efficacy of a dressing with a soft cellulose fluff core in prophylactic use. International Wound Journal, 2020, 17, 1968-1985.	1.3	12
46	Infrared thermography, COVID-19 and pressure ulcer risk. Journal of Wound Care, 2020, 29, 483-484.	0.5	4
47	COVID-19, fever and dressings used for pressure ulcer prevention: monthly update. Journal of Wound Care, 2020, 29, 430-431.	0.5	2
48	Update to device-related pressure ulcers: SECURE prevention. COVID-19, face masks and skin damage. Journal of Wound Care, 2020, 29, 245-259.	0.5	123
49	Sensitivity and laboratory performances of a secondâ€generation subâ€epidermal moisture measurement device. International Wound Journal, 2020, 17, 864-867.	1.3	8
50	The bioengineering theory of the key modes of action of a cyanoacrylate liquid skin protectant. International Wound Journal, 2020, 17, 1396-1404.	1.3	8
51	Prevention of skin damage caused by the protective equipment used to mitigate COVID-19. Journal of Wound Care, 2020, 29, 311-311.	0.5	14
52	Critical biomechanical and clinical insights concerning tissue protection when positioning patients in the operating room: A scoping review. International Wound Journal, 2020, 17, 1405-1423.	1.3	33
53	An international consensus on device-related pressure ulcers: SECURE prevention. British Journal of Nursing, 2020, 29, S36-S38.	0.3	13
54	High body mass index is a strong predictor of intraoperative acquired pressure injury in spinal surgery patients when prophylactic film dressings are applied: A retrospective analysis prior to the BOSS Trial. International Wound Journal, 2020, 17, 660-669.	1.3	14

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55	Protecting prone positioned patients from facial pressure ulcers using prophylactic dressings: A timely biomechanical analysis in the context of the COVIDâ€19 pandemic. International Wound Journal, 2020, 17, 1595-1606.	1.3	46
56	The subepidermal moisture scanner: the technology explained. Journal of Wound Care, 2020, 29, S10-S16.	0.5	25
57	Device-related pressure ulcers: SECURE prevention. Journal of Wound Care, 2020, 29, S1-S52.	0.5	132
58	An integrated experimentalâ€computational study of the microclimate under dressings applied to intact weightâ€bearing skin. International Wound Journal, 2020, 17, 562-577.	1.3	19
59	Effects of a novel medial meniscus implant on the knee compartments: imaging and biomechanical aspects. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2049-2059.	1.4	16
60	The microclimate under dressings applied to intact weight-bearing skin: Infrared thermography studies. Clinical Biomechanics, 2020, 75, 104994.	0.5	23
61	Ultrasound elastography reveals the relation between body posture and soft-tissue stiffness which is relevant to the etiology of sitting-acquired pressure ulcers. Physiological Measurement, 2020, 41, 124002.	1.2	4
62	How patient migration in bed affects the sacral soft tissue loading and thereby the risk for a hospitalâ€acquired pressure injury. International Wound Journal, 2020, 17, 631-640.	1.3	23
63	Safe and effective wound care during the COVID-19 pandemic. Journal of Wound Care, 2020, 29, 622-623.	0.5	11
64	Pressure ulcer prevention dressing design and biomechanical efficacy. Journal of Wound Care, 2020, 29, S6-S15.	0.5	10
65	What is new in our understanding of pressure injuries: the inextricable association between sustained tissue deformations and pain and the role of the support surface. Wound Practice and Research, 2020, 28, .	0.0	6
66	Three-dimensional biomimetic head model as a platform for thermal testing of protective goggles for prevention of eye injuries. Clinical Biomechanics, 2019, 64, 35-41.	0.5	8
67	A new consensus on medical device-related pressure ulcers. Journal of Wound Care, 2019, 28, 315-315.	0.5	0
68	An observational study of the maintenance of the 30Â°â€Šsideâ€lying lateral tilt position among aged care residents at risk of developing pressure injuries when using the standard care pillow and a purposeâ€designed positioning device. International Wound Journal, 2019, 16, 1080-1086.	1.3	7
69	The Effect of the Repression of Oxidative Stress on Tenocyte Differentiation: A Preliminary Study of a Rat Cell Model Using a Novel Differential Tensile Strain Bioreactor. International Journal of Molecular Sciences, 2019, 20, 3437.	1.8	12
70	Assessment of sub-epidermal moisture by direct measurement of tissue biocapacitance. Medical Engineering and Physics, 2019, 73, 92-99.	0.8	21
71	Adipocytes Migration is Altered Through Differentiation. Microscopy and Microanalysis, 2019, 25, 1195-1200.	0.2	4
72	Modelling an adult human head on a donutâ€shaped gel head support for pressure ulcer prevention. International Wound Journal, 2019, 16, 1398-1407.	1.3	19

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73	How medical engineering has changed our understanding of chronic wounds and future prospects. Medical Engineering and Physics, 2019, 72, 13-18.	0.8	37
74	The biomechanical protective effects of a treatment dressing on the soft tissues surrounding a nonâ€offloaded sacral pressure ulcer. International Wound Journal, 2019, 16, 684-695.	1.3	29
75	Noninvasive Continuous Monitoring of Adipocyte Differentiation: From Macro to Micro Scales. Microscopy and Microanalysis, 2019, 25, 119-128.	0.2	12
76	Release of sodium pyruvate from sacral prophylactic dressings: A computational model. International Wound Journal, 2019, 16, 1000-1008.	1.3	4
77	Phantom testing of the sensitivity and precision of a subâ€epidermal moisture scanner. International Wound Journal, 2019, 16, 979-988.	1.3	21
78	Dressings cut to shape alleviate facial tissue loads while using an oxygen mask. International Wound Journal, 2019, 16, 813-826.	1.3	38
79	Preventing pressure injuries in the emergency department: Current evidence and practice considerations. International Wound Journal, 2019, 16, 746-752.	1.3	11
80	Traction Force Microscopy in Differentiating Cells. Computational Methods in Applied Sciences (Springer), 2019, , 21-30.	0.1	0
81	Measuring Tensile Strength to Better Establish Protective Capacity of Sacral Prophylactic Dressings Over 7 Days of Laboratory Aging. Advances in Skin and Wound Care, 2019, 32, S21-S27.	0.5	5
82	New Clinically Relevant Method to Evaluate the Life Span of Prophylactic Sacral Dressings. Advances in Skin and Wound Care, 2019, 32, S14-S20.	0.5	6
83	Biometry impairments: the specific challenges in preventing pressure ulcers in patients with chronic spasticity. Journal of Wound Care, 2019, 28, 699-700.	0.5	4
84	Computer Modeling of Prophylactic Dressings: An Indispensable Guide for Healthcare Professionals. Advances in Skin and Wound Care, 2019, 32, S4-S13.	0.5	17
85	Cell shape alteration during adipogenesis is associated with coordinated matrix cues. Journal of Cellular Physiology, 2019, 234, 3850-3863.	2.0	42
86	Evaluation of a fluidised positioner to reduce occipital pressure injuries in intensive care patients: A pilot study. International Wound Journal, 2019, 16, 424-432.	1.3	13
87	Evaluation of helmet and goggle designs by modeling non-penetrating projectile impacts. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 229-242.	0.9	8
88	Biomechanical Model for Stress Fractureâ€"related Factors in Athletes and Soldiers. Medicine and Science in Sports and Exercise, 2018, 50, 1827-1836.	0.2	22
89	A randomised controlled trial of the clinical effectiveness of multiâ€layer silicone foam dressings for the prevention of pressure injuries in highâ€risk aged care residents: The Border III Trial. International Wound Journal, 2018, 15, 482-490.	1.3	43
90	What makes a good head positioner for preventing occipital pressure ulcers. International Wound Journal, 2018, 15, 243-249.	1.3	28

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91	Adipogenesis and lipid production in adipocytes subjected to sustained tensile deformations and elevated glucose concentration: a living cell-scale model system of diabesity. Biomechanics and Modeling in Mechanobiology, 2018, 17, 903-913.	1.4	9
92	Effects of ambient conditions on the risk of pressure injuries in bedridden patientsâ€"multiâ€physics modelling of microclimate. International Wound Journal, 2018, 15, 402-416.	1.3	48
93	Beware of the toilet: The risk for a deep tissue injury during toilet sitting. Journal of Tissue Viability, 2018, 27, 23-31.	0.9	23
94	An MRI investigation of the effects of user anatomy and wheelchair cushion type on tissue deformation. Journal of Tissue Viability, 2018, 27, 42-53.	0.9	37
95	Dynamic computational simulations for evaluating tissue loads applied by regulated negative pressure-assisted wound therapy (RNPT) system for treating large wounds. Journal of Tissue Viability, 2018, 27, 101-113.	0.9	7
96	Adipogenesis of 3T3L1 Cells Subjected to Tensile Deformations Under Various Glucose Concentrations. Lecture Notes in Bioengineering, 2018, , 171-174.	0.3	4
97	Sacral Soft Tissue Deformations When Using a Prophylactic Multilayer Dressing and Positioning System. Journal of Wound, Ostomy and Continence Nursing, 2018, 45, 432-437.	0.6	19
98	Microclimate: A critical review in the context of pressure ulcer prevention. Clinical Biomechanics, 2018, 59, 62-70.	0.5	116
99	The Critical Characteristics of a Good Wheelchair Cushion. , 2018, , 17-31.		4
100	Effect of laser therapy on expression of angio- and fibrogenic factors, and cytokine concentrations during the healing process of human pressure ulcers. International Journal of Medical Sciences, 2018, 15, 1105-1112.	1.1	34
101	Effects of an improved biomechanical backpack strap design on load transfer to the shoulder soft tissues. Journal of Biomechanics, 2018, 76, 45-52.	0.9	8
102	Effects of humidity on skin friction against medical textiles as related to prevention of pressure injuries. International Wound Journal, 2018, 15, 866-874.	1.3	54
103	A Computer Modeling Study to Assess the Durability of Prophylactic Dressings Subjected to Moisture in Biomechanical Pressure Injury Prevention. Ostomy - Wound Management, 2018, 64, 18-26.	0.8	22
104	An Observational, Prospective Cohort Pilot Study to Compare the Use of Subepidermal Moisture Measurements Versus Ultrasound and Visual Skin Assessments for Early Detection of Pressure Injury. Ostomy - Wound Management, 2018, 64, 12-27.	0.8	39
105	Tissue Loads Applied by a Novel Medical Device for Closing Large Wounds. Lecture Notes in Bioengineering, 2018, , 223-227.	0.3	0
106	Device-Related Pressure Ulcers from a Biomechanical Perspective. Lecture Notes in Bioengineering, 2018, , 37-41.	0.3	0
107	A Computer Modeling Study to Assess the Durability of Prophylactic Dressings Subjected to Moisture in Biomechanical Pressure Injury Prevention. Ostomy - Wound Management, 2018, 64, 18-26.	0.8	10
108	An Observational, Prospective Cohort Pilot Study to Compare the Use of Subepidermal Moisture Measurements Versus Ultrasound and Visual Skin Assessments for Early Detection of Pressure Injury. Ostomy - Wound Management, 2018, 64, 12-27.	0.8	6

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109	Device-related pressure ulcers from a biomechanical perspective. Journal of Tissue Viability, 2017, 26, 57-68.	0.9	46
110	Penile compression clamps: A model of the internal mechanical state of penile soft tissues. Neurourology and Urodynamics, 2017, 36, 1645-1650.	0.8	16
111	Wheeled assistive device for load carriage â€“ the effects on human gait and biomechanics. Ergonomics, 2017, 60, 1415-1424.	1.1	3
112	A novel compressive stress-based osteoarthritis-like chondrocyte system. Experimental Biology and Medicine, 2017, 242, 1062-1071.	1.1	17
113	Effect of Load Carriage on Upper Limb Performance. Medicine and Science in Sports and Exercise, 2017, 49, 1006-1014.	0.2	11
114	Comment on â€˜Effectiveness of a multiâ€layer foam dressing in preventing sacral pressure ulcers for the early acute care of patients with a traumatic spinal cord injury: comparison with the use of a gel mattressâ€™. International Wound Journal, 2017, 14, 882-884.	1.3	0
115	The contribution of a directional preference of stiffness to the efficacy of prophylactic sacral dressings in protecting healthy and diabetic tissues from pressure injury: computational modelling studies. International Wound Journal, 2017, 14, 1370-1377.	1.3	31
116	Deep tissue loads in the seated buttocks on an offâ€loading wheelchair cushion versus airâ€cellâ€based and foam cushions: finite element studies. International Wound Journal, 2017, 14, 1327-1334.	1.3	20
117	Time to challenge the continued use of the term â€˜pressure ulcerâ€™?. British Journal of Nursing, 2017, 26, S20-S22.	0.3	6
118	Why is the heel particularly vulnerable to pressure ulcers?. British Journal of Nursing, 2017, 26, S62-S74.	0.3	22
119	Lowâ€level stretching accelerates cell migration into a gap. International Wound Journal, 2017, 14, 698-703.	1.3	23
120	A multiscale modeling framework for studying the mechanobiology of sarcopenic obesity. Biomechanics and Modeling in Mechanobiology, 2017, 16, 275-295.	1.4	14
121	Editorial: State of the Journal. Clinical Biomechanics, 2017, 49, 162.	0.5	0
122	Assessment of the Biomechanical Effects of Prophylactic Sacral Dressings on Tissue Loads: A Computational Modeling Analysis. Ostomy - Wound Management, 2017, 63, 48-55.	0.8	11
123	Analytical and computational modeling of early penetration of non-enveloped icosahedral viruses into cells. Technology and Health Care, 2016, 24, 483-493.	0.5	4
124	Clinical Biomechanics is expanding its focus!. Clinical Biomechanics, 2016, 33, A1-A2.	0.5	0
125	Printable low-cost, sustained and dynamic cell stretching apparatus. Journal of Biomechanics, 2016, 49, 1336-1339.	0.9	17
126	Tissue loads applied by a novel medical device for closing large wounds. Journal of Tissue Viability, 2016, 25, 32-40.	0.9	20

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127	Key Strike Forces and Their Relation to High Level of Musculoskeletal Symptoms. Safety and Health at Work, 2016, 7, 347-353.	0.3	5
128	Modern cell biomechanics: A special issue on motility and dynamics of living cells in health, disease and healing. Journal of Biomechanics, 2016, 49, 1271.	0.9	1
129	The mechanobiology of wounds: The science of preventing pain and suffering. Medical Engineering and Physics, 2016, 38, 827.	0.8	1
130	The Mechanophysiololgy of Stress Fractures in Military Recruits. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2016, , 163-185.	0.7	0
131	Clinical and biomechanical perspectives on pressure injury prevention research: The case of prophylactic dressings. Clinical Biomechanics, 2016, 38, 29-34.	0.5	25
132	Review on experiment-based two- and three-dimensional models for wound healing. Interface Focus, 2016, 6, 20160038.	1.5	11
133	Feasibility of freehand ultrasound to measure anatomical features associated with deep tissue injury risk. Medical Engineering and Physics, 2016, 38, 839-844.	0.8	20
134	Different wound healing properties of dermis, adipose, and gingiva mesenchymal stromal cells. Wound Repair and Regeneration, 2016, 24, 100-109.	1.5	52
135	Cytoskeleton and plasma-membrane damage resulting from exposure to sustained deformations: A review of the mechanobiology of chronic wounds. Medical Engineering and Physics, 2016, 38, 828-833.	0.8	51
136	Mechanical cytoprotection: A review of cytoskeleton-protection approaches for cells. Journal of Biomechanics, 2016, 49, 1321-1329.	0.9	27
137	Methods to study differences in cell mobility during skin wound healing in vitro. Journal of Biomechanics, 2016, 49, 1381-1387.	0.9	45
138	A phase-contrast microscopy-based method for modeling the mechanical behavior of mesenchymal stem cells. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1359-1362.	0.9	2
139	Traumatic Brain Injury in the Military: Biomechanics and Finite Element Modelling. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2016, , 209-233.	0.7	4
140	Modelling the immune system response to epithelial wound infections. Journal of Theoretical Biology, 2016, 393, 158-169.	0.8	7
141	The Biomechanics of Fat: From Tissue to a Cell Scale. , 2016, , 79-92.		3
142	Modelling catheterâ€“vein biomechanical interactions during an intravenous procedure. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 330-339.	0.9	13
143	The Influence of Chronic Wound Extracts on Inflammatory Cytokine and Histatin Stability. PLoS ONE, 2016, 11, e0152613.	1.1	13
144	Extensive Characterization and Comparison of Endothelial Cells Derived from Dermis and Adipose Tissue: Potential Use in Tissue Engineering. PLoS ONE, 2016, 11, e0167056.	1.1	24

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145	A Computer Modeling Study to Evaluate the Potential Effect of Air Cell-based Cushions on the Tissues of Bariatric and Diabetic Patients. Ostomy - Wound Management, 2016, 62, 22-30.	0.8	2
146	Computer Modeling Studies to Assess Whether a Prophylactic Dressing Reduces the Risk for Deep Tissue Injury in the Heels of Supine Patients with Diabetes. Ostomy - Wound Management, 2016, 62, 42-52.	0.8	19
147	Contoured Foam Cushions Cannot Provide Long-term Protection Against Pressure-Ulcers for Individuals with a Spinal Cord Injury. Advances in Skin and Wound Care, 2015, 28, 303-316.	0.5	18
148	Deformations in the Shoulder Tissues During Load Carriage. Journal of Strength and Conditioning Research, 2015, 29, S144-S148.	1.0	1
149	Adjustability and Adaptability Are Critical Characteristics of Pediatric Support Surfaces. Advances in Wound Care, 2015, 4, 615-622.	2.6	20
150	Healthcare Engineering Defined: A White Paper. Journal of Healthcare Engineering, 2015, 6, 635-648.	1.1	29
151	Automatic detection of cell divisions (mitosis) in live-imaging microscopy images using Convolutional Neural Networks. , 2015, 2015, 743-6.		25
152	Multiscale Modeling of Tissue-Engineered Fat: Is There a Deformation-Driven Positive Feedback Loop in Adipogenesis?. Tissue Engineering - Part A, 2015, 21, 1354-1363.	1.6	16
153	Biomechanics of PUs in paediatric care settings. Journal of Wound Care, 2015, 24, 81-81.	0.5	10
154	Ratio of total traction force to projected cell area is preserved in differentiating adipocytes. Integrative Biology (United Kingdom), 2015, 7, 1212-1217.	0.6	29
155	The biomechanical efficacy of dressings in preventing heel ulcers. Journal of Tissue Viability, 2015, 24, 1-11.	0.9	83
156	Semi-stochastic cell-level computational modelling of cellular forces: application to contractures in burns and cyclic loading. Biomechanics and Modeling in Mechanobiology, 2015, 14, 1181-1195.	1.4	17
157	Editorial: Rehabilitation Bioengineering. Annals of Biomedical Engineering, 2015, 43, 259-260.	1.3	0
158	Towards a Mathematical Formalism for Semi-stochastic Cell-Level Computational Modeling of Tumor Initiation. Annals of Biomedical Engineering, 2015, 43, 1680-1694.	1.3	18
159	Weightâ€bearingâ€“induced changes in the microtopography and structural stiffness of human skin in vivo following immobility periods. Wound Repair and Regeneration, 2015, 23, 37-43.	1.5	17
160	The effect of mechanical strains in soft tissues of the shoulder during load carriage. Journal of Biomechanics, 2015, 48, 4160-4165.	0.9	12
161	Simulating single cell experiments in mechanical testing of adipocytes. Biomechanics and Modeling in Mechanobiology, 2015, 14, 537-547.	1.4	16
162	An Analytical Approach to Corneal Mechanics for Determining Practical, Clinically-Meaningful Patient-Specific Tissue Mechanical Properties in the Rehabilitation of Vision. Annals of Biomedical Engineering, 2015, 43, 274-286.	1.3	11

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163	Effects of accumulation of lipid droplets on load transfer between and within adipocytes. Biomechanics and Modeling in Mechanobiology, 2015, 14, 15-28.	1.4	21
164	Variation In Tibial Morphology And Stress Fractures Susceptibility- A Computational Study. Medicine and Science in Sports and Exercise, 2014, 46, 277.	0.2	0
165	From incontinence associated dermatitis to pressure ulcers. Journal of Wound Care, 2014, 23, 345-345.	0.5	12
166	Computer simulations of efficacy of air-cell-based cushions in protecting against reoccurrence of pressure ulcers. Journal of Rehabilitation Research and Development, 2014, 51, 1297-1319.	1.6	15
167	Developing a pressure ulcer risk factor minimum data set and risk assessment framework. Journal of Advanced Nursing, 2014, 70, 2339-2352.	1.5	55
168	A new pressure ulcer conceptual framework. Journal of Advanced Nursing, 2014, 70, 2222-2234.	1.5	271
169	Semi-stochastic cell-level computational modeling of the immune system response to bacterial infections and the effects of antibiotics. Biomechanics and Modeling in Mechanobiology, 2014, 13, 713-734.	1.4	12
170	Adipocyte Stiffness Increases with Accumulation of Lipid Droplets. Biophysical Journal, 2014, 106, 1421-1431.	0.2	89
171	Validity of the modified RULA for computer workers and reliability of one observation compared to six. Ergonomics, 2014, 57, 1856-1863.	1.1	24
172	An air-cell-based cushion for pressure ulcer protection remarkably reduces tissue stresses in the seated buttocks with respect to foams: Finite element studies. Journal of Tissue Viability, 2014, 23, 13-23.	0.9	71
173	Etiology of Keratoconus: proposed biomechanical pathogenesis. In Silico Cell and Tissue Science, 2014, 1, 3.	2.6	6
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