

Christopher L Dearth

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,293
citations

331670

21
h-index

214800

47
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62
all docs

62
docs citations

62
times ranked

2906
citing authors

#	ARTICLE	IF	CITATIONS
1	An Acellular Biologic Scaffold Promotes Skeletal Muscle Formation in Mice and Humans with Volumetric Muscle Loss. <i>Science Translational Medicine</i> , 2014, 6, 234ra58.	12.4	384
2	The promotion of a constructive macrophage phenotype by solubilized extracellular matrix. <i>Biomaterials</i> , 2014, 35, 8605-8612.	11.4	205
3	Macrophage polarization in response to ECM coated polypropylene mesh. <i>Biomaterials</i> , 2014, 35, 6838-6849.	11.4	193
4	Naturally derived and synthetic scaffolds for skeletal muscle reconstruction. <i>Advanced Drug Delivery Reviews</i> , 2015, 84, 208-221.	13.7	189
5	ECM hydrogel coating mitigates the chronic inflammatory response to polypropylene mesh. <i>Biomaterials</i> , 2014, 35, 8585-8595.	11.4	141
6	A Murine Model of Volumetric Muscle Loss and a Regenerative Medicine Approach for Tissue Replacement. <i>Tissue Engineering - Part A</i> , 2012, 18, 1941-1948.	3.1	135
7	Polypropylene surgical mesh coated with extracellular matrix mitigates the host foreign body response. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 234-246.	4.0	104
8	Solubilized extracellular matrix from brain and urinary bladder elicits distinct functional and phenotypic responses in macrophages. <i>Biomaterials</i> , 2015, 46, 131-140.	11.4	71
9	Preparation and characterization of a biologic scaffold from esophageal mucosa. <i>Biomaterials</i> , 2013, 34, 6729-6737.	11.4	67
10	The effect of terminal sterilization on the material properties and in vivo remodeling of a porcine dermal biologic scaffold. <i>Acta Biomaterialia</i> , 2016, 33, 78-87.	8.3	66
11	Tissue Engineering and Regenerative Medicine Approaches to Enhance the Functional Response to Skeletal Muscle Injury. <i>Anatomical Record</i> , 2014, 297, 51-64.	1.4	63
12	Targeted Rehabilitation After Extracellular Matrix Scaffold Transplantation for the Treatment of Volumetric Muscle Loss. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2014, 93, S79-S87.	1.4	63
13	Inhibition of COX1/2 alters the host response and reduces ECM scaffold mediated constructive tissue remodeling in a rodent model of skeletal muscle injury. <i>Acta Biomaterialia</i> , 2016, 31, 50-60.	8.3	50
14	In vivo degradation of 14C-labeled porcine dermis biologic scaffold. <i>Biomaterials</i> , 2014, 35, 8297-8304.	11.4	43
15	Histologic Characterization of Acellular Dermal Matrices in a Porcine Model of Tissue Expander Breast Reconstruction. <i>Tissue Engineering - Part A</i> , 2015, 21, 35-44.	3.1	42
16	The Effect of Mechanical Loading Upon Extracellular Matrix Bioscaffold-Mediated Skeletal Muscle Remodeling. <i>Tissue Engineering - Part A</i> , 2018, 24, 34-46.	3.1	41
17	β ₂ -Integrins contribute to skeletal muscle hypertrophy in mice. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C1026-C1036.	4.6	39
18	Regenerative and Rehabilitative Medicine: A Necessary Synergy for Functional Recovery from Volumetric Muscle Loss Injury. <i>Cells Tissues Organs</i> , 2016, 202, 237-249.	2.3	38

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19	The use of urinary bladder matrix in the treatment of trauma and combat casualty wound care. <i>Regenerative Medicine</i> , 2015, 10, 611-622.	1.7	37
20	Impact of Traumatic Lower Extremity Injuries Beyond Acute Care: Movement-Based Considerations for Resultant Longer Term Secondary Health Conditions. <i>Advances in Wound Care</i> , 2017, 6, 269-278.	5.1	31
21	Taking the Next Steps in Regenerative Rehabilitation: Establishment of a New Interdisciplinary Field. <i>Archives of Physical Medicine and Rehabilitation</i> , 2020, 101, 917-923.	0.9	24
22	Skeletal Muscle Cells Express ICAM-1 after Muscle Overload and ICAM-1 Contributes to the Ensuing Hypertrophic Response. <i>PLoS ONE</i> , 2013, 8, e58486.	2.5	22
23	The Center for Rehabilitation Sciences Research: Advancing the Rehabilitative Care for Service Members With Complex Trauma. <i>Military Medicine</i> , 2016, 181, 20-25.	0.8	18
24	Trunk muscle activation patterns during walking among persons with lower limb loss: Influences of walking speed. <i>Journal of Electromyography and Kinesiology</i> , 2018, 40, 48-55.	1.7	17
25	Walking speed differentially alters spinal loads in persons with traumatic lower limb amputation. <i>Journal of Biomechanics</i> , 2018, 70, 249-254.	2.1	16
26	Biomechanical and neurocognitive performance outcomes of walking with transtibial limb loss while challenged by a concurrent task. <i>Experimental Brain Research</i> , 2019, 237, 477-491.	1.5	16
27	Intercellular adhesion molecule-1 expression by skeletal muscle cells augments myogenesis. <i>Experimental Cell Research</i> , 2015, 331, 292-308.	2.6	15
28	The impact of sterilization upon extracellular matrix hydrogel structure and function. <i>Journal of Immunology and Regenerative Medicine</i> , 2018, 2, 11-20.	0.4	11
29	A Comparison of Mental Workload in Individuals with Transtibial and Transfemoral Lower Limb Loss during Dual-Task Walking under Varying Demand. <i>Journal of the International Neuropsychological Society</i> , 2019, 25, 985-997.	1.8	11
30	The Relationship Between Gait Symmetry and Metabolic Demand in Individuals With Unilateral Transfemoral Amputation: A Preliminary Study. <i>Military Medicine</i> , 2019, 184, e281-e287.	0.8	11
31	The Role of the Inflammatory Response in Mediating Functional Recovery Following Composite Tissue Injuries. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13552.	4.1	11
32	Plastic Surgery Challenges in War Wounded II: <i>Regenerative Medicine</i> . <i>Advances in Wound Care</i> , 2016, 5, 412-419.	5.1	10
33	Trunk muscle forces and spinal loads in persons with unilateral transfemoral amputation during sit-to-stand and stand-to-sit activities. <i>Clinical Biomechanics</i> , 2019, 63, 95-103.	1.2	10
34	Relationships between mediolateral trunk-pelvic motion, hip strength, and knee joint moments during gait among persons with lower limb amputation. <i>Clinical Biomechanics</i> , 2020, 71, 160-166.	1.2	10
35	Prolonged field care for traumatic extremity injuries: defining a role for biologically focused technologies. <i>Npj Regenerative Medicine</i> , 2021, 6, 6.	5.2	9
36	The Extremity Trauma and Amputation Center of Excellence: Overview of the Research and Surveillance Division. <i>Military Medicine</i> , 2016, 181, 3-12.	0.8	7

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37	Changes in Trunk and Pelvis Motion Among Persons With Unilateral Lower Limb Loss During the First Year of Ambulation. <i>Archives of Physical Medicine and Rehabilitation</i> , 2020, 101, 426-433.	0.9	7
38	COX-2 inhibition does not alter wound healing outcomes of a volumetric muscle loss injury treated with a biologic scaffold. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 1929-1938.	2.7	7
39	Human NELL1 Protein Augments Constructive Tissue Remodeling with Biologic Scaffolds. <i>Cells Tissues Organs</i> , 2013, 198, 249-265.	2.3	6
40	Multimodality Imaging Approaches for Evaluating Traumatic Extremity Injuries: Implications for Military Medicine. <i>Advances in Wound Care</i> , 2017, 6, 241-251.	5.1	6
41	A more compliant prosthetic foot better accommodates added load while walking among Servicemembers with transtibial limb loss. <i>Journal of Biomechanics</i> , 2020, 98, 109395.	2.1	6
42	Evaluation of licoferone as an adjunct anti-inflammatory therapy to biologic scaffolds in the treatment of volumetric muscle loss. <i>Cell and Tissue Research</i> , 2021, 385, 149-159.	2.9	5
43	Evaluating the potential use of functional fibrosis to facilitate improved outcomes following volumetric muscle loss injury. <i>Acta Biomaterialia</i> , 2022, 140, 379-388.	8.3	5
44	Lower Extremity Joint Contributions to Trunk Control During Walking in Persons with Transtibial Amputation. <i>Scientific Reports</i> , 2019, 9, 12267.	3.3	4
45	Pleiotropic actions of Vitamin D in composite musculoskeletal trauma. <i>Injury</i> , 2020, 51, 2099-2109.	1.7	4
46	Assessments of trunk postural control within a fall-prevention training program for service members with lower limb trauma and loss. <i>Gait and Posture</i> , 2022, 92, 493-497.	1.4	4
47	Trunk muscle forces and spinal loads while walking in persons with lower limb amputation: Influences of chronic low back pain. <i>Journal of Biomechanics</i> , 2022, 135, 111028.	2.1	4
48	Trunk-Pelvis motions and spinal loads during upslope and downslope walking among persons with transfemoral amputation. <i>Journal of Biomechanics</i> , 2019, 95, 109316.	2.1	3
49	Development of a high-color flow cytometry panel for immunologic analysis of tissue injury and reconstruction in a rat model. <i>Cells Tissues Organs</i> , 2022, , .	2.3	3
50	A Rodent Model to Evaluate the Tissue Response to a Biological Scaffold When Adjacent to a Synthetic Material. <i>Tissue Engineering - Part A</i> , 2015, 21, 2526-2535.	3.1	2
51	Joint power distribution does not change within the contralateral limb one year after unilateral limb loss. <i>Gait and Posture</i> , 2019, 73, 8-13.	1.4	2
52	Customized Three-Dimensional (3D)-Printed Prosthetic Devices for Wounded Warriors. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2019, 98, e38-e39.	1.4	2
53	Gait biomechanics: A clinically relevant outcome measure for preclinical research of musculoskeletal trauma. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1139-1151.	2.3	2
54	The Bridging Advanced Developments for Exceptional Rehabilitation (BADER) Consortium: Reaching in Partnership for Optimal Orthopaedic Rehabilitation Outcomes. <i>Military Medicine</i> , 2016, 181, 13-19.	0.8	1

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55	Biomechanical characterization of the foot-ground interaction among Service members with unilateral transtibial limb loss performing unconstrained drop-landings: Effects of drop height and added mass. <i>Journal of Biomechanics</i> , 2021, 127, 110701.	2.1	0
56	Intercellular adhesion molecule-1 is expressed by skeletal muscle cells in hypertrophying muscle of mice. <i>FASEB Journal</i> , 2010, 24, 1046.4.	0.5	0
57	ICAM-1 expression by skeletal muscle cells augments stages of myogenesis. <i>FASEB Journal</i> , 2013, 27, lb813.	0.5	0
58	Toward improving residual limb climate within prostheses for persons with lower limb loss. <i>Prosthetics and Orthotics International</i> , 2021, Publish Ahead of Print, .	1.0	0
59	A single-subject comparison of functional outcomes between lower limb salvage vs. transtibial amputation through sequential participation in a fall-prevention program. <i>Prosthetics and Orthotics International</i> , 2022, Publish Ahead of Print, .	1.0	0