

Benjamin B Rothrauff

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,472
citations

218662

26
h-index

206102

48
g-index

59
all docs

59
docs citations

59
times ranked

3223
citing authors

#	ARTICLE	IF	CITATIONS
1	Tendon and ligament regeneration and repair: Clinical relevance and developmental paradigm. Birth Defects Research Part C: Embryo Today Reviews, 2013, 99, 203-222.	3.6	331
2	Aging of the skeletal muscle extracellular matrix drives a stem cell fibrogenic conversion. Aging Cell, 2017, 16, 518-528.	6.7	172
3	Multilayered polycaprolactone/gelatin fiber-hydrogel composite for tendon tissue engineering. Acta Biomaterialia, 2016, 35, 68-76.	8.3	164
4	Enhancement of tenogenic differentiation of human adipose stem cells by tendon-derived extracellular matrix. Biomaterials, 2013, 34, 9295-9306.	11.4	155
5	The Structure and Function of the Anterolateral Ligament of the Knee: A Systematic Review. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2015, 31, 569-582.e3.	2.7	111
6	Braided and Stacked Electrospun Nanofibrous Scaffolds for Tendon and Ligament Tissue Engineering. Tissue Engineering - Part A, 2017, 23, 378-389.	3.1	93
7	Tissue-specific bioactivity of soluble tendon-derived and cartilage-derived extracellular matrices on adult mesenchymal stem cells. Stem Cell Research and Therapy, 2017, 8, 133.	5.5	91
8	Cellular therapy in bone-tendon interface regeneration. Organogenesis, 2014, 10, 13-28.	1.2	85
9	Anatomic ACL reconstruction reduces risk of post-traumatic osteoarthritis: a systematic review with minimum 10-year follow-up. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 1072-1084.	4.2	73
10	Treatment after anterior cruciate ligament injury: Panther Symposium ACL Treatment Consensus Group. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 2390-2402.	4.2	62
11	Macroscopic anatomical, histological and magnetic resonance imaging correlation of the lateral capsule of the knee. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 2854-2860.	4.2	61
12	Region-Specific Effect of the Decellularized Meniscus Extracellular Matrix on Mesenchymal Stem Cell-Based Meniscus Tissue Engineering. American Journal of Sports Medicine, 2017, 45, 604-611.	4.2	61
13	Anatomical region-dependent enhancement of 3-dimensional chondrogenic differentiation of human mesenchymal stem cells by soluble meniscus extracellular matrix. Acta Biomaterialia, 2017, 49, 140-151.	8.3	60
14	In Vitro Repair of Meniscal Radial Tear With Hydrogels Seeded With Adipose Stem Cells and TGF- β 3. American Journal of Sports Medicine, 2018, 46, 2402-2413.	4.2	53
15	Enhanced repair of meniscal hoop structure injuries using an aligned electrospun nanofibrous scaffold combined with a mesenchymal stem cell-derived tissue engineered construct. Biomaterials, 2019, 192, 346-354.	11.4	53
16	Return to sport after anterior cruciate ligament injury: Panther Symposium ACL Injury Return to Sport Consensus Group. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 2403-2414.	4.2	53
17	Tendon-Derived Extracellular Matrix Enhances Transforming Growth Factor- β 3-Induced Tenogenic Differentiation of Human Adipose-Derived Stem Cells. Tissue Engineering - Part A, 2017, 23, 166-176.	3.1	50
18	Efficacy of thermoresponsive, photocrosslinkable hydrogels derived from decellularized tendon and cartilage extracellular matrix for cartilage tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e159-e170.	2.7	50

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19	Clinical outcomes after anterior cruciate ligament injury: panther symposium ACL injury clinical outcomes consensus group. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 2415-2434.	4.2	47
20	The effect of adipose-derived stem cells on enthesis healing after repair of acute and chronic massive rotator cuff tears in rats. <i>Journal of Shoulder and Elbow Surgery</i> , 2019, 28, 654-664.	2.6	46
21	Scaffold-Based Therapies: Proceedings of the International Consensus Meeting on Cartilage Repair of the Ankle. <i>Foot and Ankle International</i> , 2018, 39, 41S-47S.	2.3	45
22	Return to Sport After Anterior Cruciate Ligament Injury: Panther Symposium ACL Injury Return to Sport Consensus Group. <i>Orthopaedic Journal of Sports Medicine</i> , 2020, 8, 232596712093082.	1.7	43
23	Robust bone regeneration through endochondral ossification of human mesenchymal stem cells within their own extracellular matrix. <i>Biomaterials</i> , 2019, 218, 119336.	11.4	40
24	Effect of Platelet-Rich Plasma on Chondrogenic Differentiation of Adipose- and Bone Marrow-Derived Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2018, 24, 1432-1443.	3.1	36
25	Tendon-derived extracellular matrix induces mesenchymal stem cell tenogenesis via an integrin/transforming growth factor β crosstalk-mediated mechanism. <i>FASEB Journal</i> , 2020, 34, 8172-8186.	0.5	36
26	Effect of adipose-derived stromal cells and BMP12 on intrasynovial tendon repair: A biomechanical, biochemical, and proteomics study. <i>Journal of Orthopaedic Research</i> , 2016, 34, 630-640.	2.3	31
27	Dynamic Compressive Loading Improves Cartilage Repair in an In Vitro Model of Microfracture: Comparison of 2 Mechanical Loading Regimens on Simulated Microfracture Based on Fibrin Gel Scaffolds Encapsulating Connective Tissue Progenitor Cells. <i>American Journal of Sports Medicine</i> , 2019, 47, 2188-2199.	4.2	31
28	Decellularized bone extracellular matrix in skeletal tissue engineering. <i>Biochemical Society Transactions</i> , 2020, 48, 755-764.	3.4	29
29	Experimental Execution of the Simulated Pivot-Shift Test: A Systematic Review of Techniques. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2015, 31, 2445-2454.e2.	2.7	26
30	The Rotator Cuff Organ: Integrating Developmental Biology, Tissue Engineering, and Surgical Considerations to Treat Chronic Massive Rotator Cuff Tears. <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 318-335.	4.8	25
31	The Pivot Shift: Current Experimental Methodology and Clinical Utility for Anterior Cruciate Ligament Rupture and Associated Injury. <i>Current Reviews in Musculoskeletal Medicine</i> , 2019, 12, 41-49.	3.5	23
32	Meniscal substitution, a developing and long-awaited demand. <i>Journal of Experimental Orthopaedics</i> , 2020, 7, 55.	1.8	21
33	Management of the Contaminated Anterior Cruciate Ligament Graft. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2014, 30, 236-244.	2.7	19
34	Point-of-Care Procedure for Enhancement of Meniscal Healing in a Goat Model Utilizing Infrapatellar Fat Pad-Derived Stromal Vascular Fraction Cells Seeded in Photocrosslinkable Hydrogel. <i>American Journal of Sports Medicine</i> , 2019, 47, 3396-3405.	4.2	18
35	Treatment After Anterior Cruciate Ligament Injury: Panther Symposium ACL Treatment Consensus Group. <i>Orthopaedic Journal of Sports Medicine</i> , 2020, 8, 232596712093109.	1.7	17
36	Augmented repair of radial meniscus tear with biomimetic electrospun scaffold: an in vitro mechanical analysis. <i>Journal of Experimental Orthopaedics</i> , 2016, 3, 23.	1.8	16

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37	Over-the-top ACL reconstruction restores anterior and rotatory knee laxity in skeletally immature individuals and revision settings. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 538-543.	4.2	16
38	Return to sport after anterior cruciate ligament injury: Panther Symposium ACL Injury Return to Sport Consensus Group. <i>Journal of ISAKOS</i> , 2021, 6, 138-146.	2.3	16
39	Arthroscopic image distortion—part I: the effect of lens and viewing angles in a 2-dimensional in vitro model. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 2065-2071.	4.2	15
40	Arthroscopic image distortion—part II: the effect of lens angle and portal location in a 3D knee model. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 2072-2078.	4.2	13
41	Anatomical anterior cruciate ligament reconstruction (ACLR) results in fewer rates of atraumatic graft rupture, and higher rates of rotatory knee stability: a meta-analysis. <i>Journal of ISAKOS</i> , 2020, 5, 359-370.	2.3	10
42	ACL consensus on treatment, outcome, and return to sport. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 2387-2389.	4.2	10
43	Rapidly dissociated autologous meniscus tissue enhances meniscus healing: An <i>in vitro</i> study. <i>Connective Tissue Research</i> , 2017, 58, 355-365.	2.3	9
44	Preoperative ultrasound predicts the intraoperative diameter of the quadriceps tendon autograft more accurately than preoperative magnetic resonance imaging for anterior cruciate ligament reconstruction. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 52-60.	4.2	9
45	Posterior tibial translation resulting from the posterior drawer manoeuvre in cadaveric knee specimens: a systematic review. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015, 23, 2974-2982.	4.2	7
46	In situ cross-sectional area of the quadriceps tendon using preoperative magnetic resonance imaging significantly correlates with the intraoperative diameter of the quadriceps tendon autograft. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 742-749.	4.2	7
47	Clinical outcomes after anterior cruciate ligament injury: Panther Symposium ACL Injury Clinical Outcomes Consensus Group. <i>Journal of ISAKOS</i> , 2020, 5, 281-294.	2.3	6
48	Anterior cruciate ligament reconstruction with remnant preservation: current concepts. <i>Journal of ISAKOS</i> , 2020, 5, 128-133.	2.3	6
49	Paediatric knee anterolateral capsule does not contain a distinct ligament: analysis of histology, immunohistochemistry and gene expression. <i>Journal of ISAKOS</i> , 2021, 6, 82-87.	2.3	4
50	Treatment after anterior cruciate ligament injury: Panther Symposium ACL Treatment Consensus Group. <i>Journal of ISAKOS</i> , 2021, 6, 129-137.	2.3	4
51	Superb microvascular imaging (SMI) detects increased vascularity of the torn anterior cruciate ligament. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 93-101.	4.2	3
52	Clinical studies of single-stage combined ACL and PCL reconstruction variably report graft tensioning, fixation sequence, and knee flexion angle at time of fixation. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 1238-1250.	4.2	2
53	Common animal models lack a distinct glenoid labrum: a comparative anatomy study. <i>Journal of Experimental Orthopaedics</i> , 2021, 8, 63.	1.8	2
54	Freddie Fu: A Leader of Leaders. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2022, 30, 13-15.	4.2	1

#	ARTICLE	IF	CITATIONS
55	Two-fragment Segond fracture validates historical descriptions of independent soft tissue attachments. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 71-77.	4.2	0
56	How to build a sports medicine programâ€”gridiron of western Pennsylvaniaâ€”a Pitt orthopaedic tradition. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 16-19.	4.2	0
57	Paper 10: Long-Term Outcomes Following Arthroscopic Posterior Shoulder Stabilization: Minimum 10 Year Follow-up. Orthopaedic Journal of Sports Medicine, 2022, 10, 2325967121S0054.	1.7	0