

# Guy Trudel

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,471  
citations

361045  
20  
h-index

329751  
37  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1147  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hemolysis contributes to anemia during long-duration space flight. <i>Nature Medicine</i> , 2022, 28, 59-62.	15.2	46
2	Exercise may impact on lumbar vertebrae marrow adipose tissue: Randomised controlled trial. <i>Bone</i> , 2022, 157, 116338.	1.4	7
3	Knee Flexion Contractures Are Associated with Worse Pain, Stiffness, and Function in Patients with Knee Osteoarthritis: Data from the Osteoarthritis Initiative. <i>PM and R</i> , 2021, 13, 954-961.	0.9	9
4	Bone replaces unloaded articular cartilage during knee immobilization. A longitudinal study in the rat. <i>Bone</i> , 2021, 142, 115694.	1.4	6
5	Preoperative bone marrow stimulation does not improve functional outcomes in arthroscopic cuff repair: a prospective randomized controlled trial. <i>Bone and Joint Journal</i> , 2021, 103-B, 123-130.	1.9	8
6	Six degrees head-down tilt bed rest caused low-grade hemolysis: a prospective randomized clinical trial. <i>Npj Microgravity</i> , 2021, 7, 4.	1.9	10
7	Healthy women confined to 60 days of bed rest showed no change in Achilles tendon dimensions but reduced calcaneal bone density. <i>Annals of Physical and Rehabilitation Medicine</i> , 2021, 64, 101412.	1.1	2
8	Rotator cuff anchor repair: Histological changes associated with the recovering mechanical properties in a rabbit model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 567-576.	1.3	3
9	Quantitative analysis of repaired rabbit supraspinatus tendons ( $\Delta$ channeling) using magnetic resonance imaging at 7 Tesla. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 3460-3471.	1.1	1
10	Effect of rehabilitation on biologic and transcriptomic responses after hospital-acquired deconditioning: a prospective longitudinal feasibility study. <i>Disability and Rehabilitation</i> , 2021, , 1-9.	0.9	0
11	Bone Marrow Reconversion With Reambulation. <i>Investigative Radiology</i> , 2021, 56, 215-223.	3.5	10
12	Flexion contracture is associated with knee joint degeneration on magnetic resonance imaging: data from the Osteoarthritis Initiative. <i>Clinical and Experimental Rheumatology</i> , 2021, , .	0.4	1
13	Knee joint stiffness following immobilization and remobilization: A study in the rat model. <i>Journal of Biomechanics</i> , 2020, 99, 109471.	0.9	6
14	Characterizing the effect of exposure to microgravity on anemia: more space is worse. <i>American Journal of Hematology</i> , 2020, 95, 267-273.	2.0	28
15	Mechanical adaptation of synoviocytes A and B to immobilization and remobilization: a study in the rat knee flexion model. <i>Journal of Molecular Histology</i> , 2020, 51, 605-611.	1.0	0
16	Reversibility of marrow adipose accumulation and reduction of trabecular bone in the epiphysis of the proximal tibia. <i>Acta Histochemica</i> , 2020, 122, 151604.	0.9	3
17	Hyperplasia and accelerated hypertrophy of marrow adipocytes with knee immobilization were sustained despite remobilization. <i>Journal of Applied Physiology</i> , 2020, 129, 701-708.	1.2	5
18	Supraspinatus tendon transosseous vs anchor repair surgery: a comparative study of mechanical recovery in the rabbit. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 585.	0.9	4

#	ARTICLE	IF	CITATIONS
19	Characterization of Intervertebral Disc Changes in Asymptomatic Individuals with Distinct Physical Activity Histories Using Three Different Quantitative MRI Techniques. <i>Journal of Clinical Medicine</i> , 2020, 9, 1841.	1.0	7
20	Exercise for the intervertebral disc: a 6-month randomised controlled trial in chronic low back pain. <i>European Spine Journal</i> , 2020, 29, 1887-1899.	1.0	13
21	Measuring Human Hemolysis Clinically and in Extreme Environments Using Endogenous Carbon Monoxide Elimination. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1540-1550.	1.3	4
22	Knee Flexion Contracture Associated With a Contracture and Worse Function of the Contralateral Knee: Data From the Osteoarthritis Initiative. <i>Archives of Physical Medicine and Rehabilitation</i> , 2020, 101, 624-632.	0.5	13
23	Tendon contains more stem cells than bone at the rotator cuff repair site. <i>Journal of Shoulder and Elbow Surgery</i> , 2019, 28, 1779-1787.	1.2	8
24	Adipocyte hyperplasia: the primary mechanism of supraspinatus intramuscular fat accumulation after a complete rotator cuff tendon tear: a study in the rabbit. <i>Adipocyte</i> , 2019, 8, 144-153.	1.3	3
25	Marrow adipose tissue gradient is preserved through high protein diet and bed rest. A randomized crossover study. <i>Bone Reports</i> , 2019, 11, 100229.	0.2	3
26	Beneficial Intervertebral Disc and Muscle Adaptations in High-Volume Road Cyclists. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 211-217.	0.2	13
27	Joint contractures and acquired deforming hypertonia in older people: Which determinants?. <i>Annals of Physical and Rehabilitation Medicine</i> , 2019, 62, 435-441.	1.1	11
28	Intervertebral disc status is associated with vertebral marrow adipose tissue and muscular endurance. <i>European Spine Journal</i> , 2018, 27, 1704-1711.	1.0	5
29	Specific Modulation of Vertebral Marrow Adipose Tissue by Physical Activity. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 651-657.	3.1	33
30	Supraspinatus tendon repair using anchors: a biomechanical evaluation in the rabbit. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 64.	0.9	9
31	Range of Extension Correlates with Posterior Capsule Length after Knee Remobilization. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 2401-2408.	0.2	10
32	Using a Knee Arthrometer to Evaluate Tissue-specific Contributions to Knee Flexion Contracture in the Rat. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	2
33	Imaging of the rabbit supraspinatus enthesis at 7 Tesla: a 4-week time course after repair surgery and effect of channeling. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 461-467.	1.9	5
34	Optimising conservative management of chronic low back pain: study protocol for a randomised controlled trial. <i>Trials</i> , 2017, 18, 184.	0.7	18
35	The effects of knee immobilization on marrow adipocyte hyperplasia and hypertrophy at the proximal rat tibia epiphysis. <i>Acta Histochemica</i> , 2017, 119, 759-765.	0.9	5
36	Hemolysis during and after 21 days of head-down-tilt bed rest. <i>Physiological Reports</i> , 2017, 5, e13469.	0.7	16

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37	Noninflammatory Joint Contractures Arising from Immobility: Animal Models to Future Treatments. <i>BioMed Research International</i> , 2015, 2015, 1-6.	0.9	49
38	Knee Flexion Contractures in Patients with Osteoarthritis: Clinical Features and Histologic Characterization of the Posterior Capsule. <i>PM and R</i> , 2015, 7, 466-473.	0.9	41
39	Joint contractures in the intensive care unit: quality of life and function 3.3 years after hospital discharge. <i>Disability and Rehabilitation</i> , 2015, 37, 207-213.	0.9	27
40	Quantitative analysis of the reversibility of knee flexion contractures with time: an experimental study using the rat model. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 338.	0.8	33
41	Genome wide Gene Expression Analysis of the Posterior Capsule in Patients with Osteoarthritis and Knee Flexion Contracture. <i>Journal of Rheumatology</i> , 2014, 41, 2232-2239.	1.0	35
42	Quantitative and temporal differential recovery of articular and muscular limitations of knee joint contractures; results in a rat model. <i>Journal of Applied Physiology</i> , 2014, 117, 730-737.	1.2	63
43	Resistive exercises, with or without whole body vibration, prevent vertebral marrow fat accumulation during 60 days of head-down tilt bed rest in men. <i>Journal of Applied Physiology</i> , 2012, 112, 1824-1831.	1.2	36
44	Improved strength of early versus late supraspinatus tendon repair: a study in the rabbit. <i>Journal of Shoulder and Elbow Surgery</i> , 2012, 21, 828-834.	1.2	10
45	Supraspinatus tendon repair into a bony trough in the rabbit: Mechanical restoration and correlative imaging. <i>Journal of Orthopaedic Research</i> , 2010, 28, 710-715.	1.2	34
46	Bone marrow fat accumulation after 60 days of bed rest persisted 1 year after activities were resumed along with hemopoietic stimulation: the Women International Space Simulation for Exploration study. <i>Journal of Applied Physiology</i> , 2009, 107, 540-548.	1.2	110
47	Joint contracture following prolonged stay in the intensive care unit. <i>Cmaj</i> , 2008, 178, 691-697.	0.9	146
48	Mechanical Alterations of Rabbit Achillesâ€™ Tendon After Immobilization Correlate With Bone Mineral Density But Not With Magnetic Resonance or Ultrasound Imaging. <i>Archives of Physical Medicine and Rehabilitation</i> , 2007, 88, 1720-1726.	0.5	17
49	Anemia of immobility: Caused by adipocyte accumulation in bone marrow. <i>Medical Hypotheses</i> , 2007, 69, 778-786.	0.8	35
50	Formation of a new enthesis after attachment of the supraspinatus tendon: A quantitative histologic study in rabbits. <i>Journal of Orthopaedic Research</i> , 2005, 23, 1433-1440.	1.2	62
51	Dual Cryogenic Fixation for Mechanical Testing of Soft Musculoskeletal Tissues. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 1792-1795.	2.5	16
52	Contrasting alterations of apposed and unapposed articular cartilage during joint contracture formation. <i>Archives of Physical Medicine and Rehabilitation</i> , 2005, 86, 90-97.	0.5	30
53	Prothrombin gene expression in articular cartilage with a putative role in cartilage degeneration secondary to joint immobility. <i>Journal of Rheumatology</i> , 2005, 32, 1547-55.	1.0	9
54	Measurement of articular cartilage surface irregularity in rat knee contracture. <i>Journal of Rheumatology</i> , 2003, 30, 2218-25.	1.0	16

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55	High collagen type I and low collagen type III levels in knee joint contracture. Acta Orthopaedica, 2002, 73, 335-343.	1.4	70
56	Tensile strength of the supraspinatus after reimplantation into a bony trough: An experimental study in rabbits. Journal of Shoulder and Elbow Surgery, 2002, 11, 504-509.	1.2	62
57	Growth in width of the metacarpals " an investigation in human fetuses. Journal of Orthopaedic Research, 2001, 19, 352-358.	1.2	3
58	Optimization of perfusion decalcification for bones and joints in rats. The Anatomical Record, 2000, 260, 222-227.	2.3	3
59	Contractures secondary to immobility: Is the restriction articular or muscular? An experimental longitudinal study in the rat knee. Archives of Physical Medicine and Rehabilitation, 2000, 81, 6-13.	0.5	176
60	Extent and direction of joint motion limitation after prolonged immobility: An experimental study in the rat. Archives of Physical Medicine and Rehabilitation, 1999, 80, 1542-1547.	0.5	59
61	Flexion contracture is associated with knee joint degeneration on magnetic resonance imaging: data from the Osteoarthritis Initiative. Clinical and Experimental Rheumatology, 0, , .	0.4	2