

# Takahiro Niikura

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

1,304  
citations

430874

18  
h-index

434195

31  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1462  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Intensity Pulsed Ultrasound Promotes Osteogenic Differentiation of Reamer-Irrigator-Aspirator Graft-Derived Cells in Vitro. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 313-322.	1.5	3
2	Immunohistochemical analysis revealed the expression of bone morphogenetic proteins-4, 6, 7, and 9 in human induced membrane samples treated with the Masquelet technique. <i>Journal of Orthopaedic Surgery and Research</i> , 2022, 17, 29.	2.3	3
3	Safety of 222 nm UVC Irradiation to the Surgical Site in a Rabbit Model. <i>Photochemistry and Photobiology</i> , 2022, 98, 1365-1371.	2.5	8
4	A Piezo1/KLF15/IL-6 axis mediates immobilization-induced muscle atrophy. <i>Journal of Clinical Investigation</i> , 2022, 132, 1-13.	8.2	31
5	Clinical Outcome of Patients with Pelvic and Retroperitoneal Bone and Soft Tissue Sarcoma: A Retrospective Multicenter Study in Japan. <i>Cancers</i> , 2022, 14, 3023.	3.7	1
6	Continuous local antibiotic perfusion: A treatment strategy that allows implant retention in fracture-related infections. <i>Journal of Orthopaedic Surgery</i> , 2022, 30, 102255362211119.	1.0	10
7	Relationship between glenohumeral internal rotation deficit and shoulder conditions in professional baseball pitchers. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, 2073-2081.	2.6	4
8	Clinical experience of the use of reamer irrigator aspirator in Japanese patients: A report of the first 42 cases. <i>Journal of Orthopaedic Science</i> , 2021, 26, 459-465.	1.1	4
9	Anterior transolecranon fracture dislocation with an associated avulsion fracture of coronoid process of ulna in a child: a case report. <i>JSES International</i> , 2021, 5, 9-12.	1.6	2
10	Cryopreserved human adipose-derived stromal vascular fraction maintains fracture healing potential via angiogenesis and osteogenesis in an immunodeficient rat model. <i>Stem Cell Research and Therapy</i> , 2021, 12, 110.	5.5	13
11	Quantitative bone single-photon emission computed tomography imaging for uninfected nonunion: comparison of hypertrophic nonunion and non-hypertrophic nonunion. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 125.	2.3	8
12	Influence of selected plane on the evaluation of tibial tunnel locations using a three-dimensional bone model in double-bundle anterior cruciate ligament reconstruction. <i>Knee</i> , 2021, 29, 298-304.	1.6	0
13	Histological analysis of induced membranes in patients whose bone defects were treated with the Masquelet technique to identify factors affecting the vascularity of induced membranes. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 248.	2.3	8
14	Closed Compression Nailing Using a New-Generation Intramedullary Nail without Autologous Bone Grafting for Humeral Shaft Nonunion. <i>Case Reports in Orthopedics</i> , 2021, 2021, 1-8.	0.3	0
15	Effects of trochlear fragmentation on functional outcome in coronal shear fractures: a retrospective comparative study. <i>JSES International</i> , 2021, 5, 571-577.	1.6	5
16	Comparison of plantar pressure distribution during walking and lower limb alignment between modified kinematically and mechanically aligned total knee arthroplasty. <i>Journal of Biomechanics</i> , 2021, 120, 110379.	2.1	13
17	Modern femoral component design in total knee arthroplasty shows a lower patellar contact force during knee flexion compared with its predecessor. <i>Knee</i> , 2021, 30, 1-8.	1.6	1
18	Preoperative varus deformity of the knee affects the intraoperative joint gap in unicompartmental knee arthroplasty. <i>Knee</i> , 2021, 32, 90-96.	1.6	2

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19	Intra-medullary antibiotics perfusion (iMAP) for the control of fracture-related infection early after osteosynthesis. <i>Journal of Orthopaedic Surgery</i> , 2021, 29, 230949902110514.	1.0	12
20	A Case of Femoral Neck Insufficiency Fracture due to Tumor-Induced Osteomalacia. <i>Case Reports in Orthopedics</i> , 2021, 2021, 1-5.	0.3	0
21	Treatment of Chronic Osteomyelitis of the Femur by Intramedullary Antibiotic Perfusion (iMAP): A Case Report.. <i>Journal of Orthopaedic Case Reports</i> , 2021, 11, 35-38.	0.1	1
22	Assessment of posterior shoulder muscle stiffness related to posterior shoulder tightness in college baseball players using shear wave elastography. <i>Journal of Shoulder and Elbow Surgery</i> , 2020, 29, 571-577.	2.6	20
23	Improved implant alignment accuracy with an accelerometer-based portable navigation system in medial unicompartmental knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 2917-2923.	4.2	13
24	Effects of the duration of transcutaneous CO2 application on the facilitatory effect in rat fracture repair. <i>Journal of Orthopaedic Science</i> , 2020, 25, 886-891.	1.1	6
25	Transcutaneous carbon dioxide application inhibits muscle atrophy after fracture in rats. <i>Journal of Orthopaedic Science</i> , 2020, 25, 338-343.	1.1	6
26	Percutaneous CO2 Treatment Accelerates Bone Generation During Distraction Osteogenesis in Rabbits. <i>Clinical Orthopaedics and Related Research</i> , 2020, 478, 1922-1935.	1.5	8
27	Exploratory clinical trial on the safety and bactericidal effect of 222-nm ultraviolet C irradiation in healthy humans. <i>PLoS ONE</i> , 2020, 15, e0235948.	2.5	85
28	Surgically Treated Nonunion following Ischial Tuberosity Avulsion Fracture of a 14-Year-Old Athlete. <i>Case Reports in Orthopedics</i> , 2020, 2020, 1-5.	0.3	1
29	Larger Acetabular Labrum Is Associated With Hip Dysplasia, Joint Incongruence, and Clinical Symptoms. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2020, 36, 2446-2453.	2.7	11
30	Extraskelatal Para-articular Osteochondroma of the Ankle Joint in a Child. <i>JBJS Case Connector</i> , 2020, 10, e0274-e0274.	0.3	1
31	Mobile-bearing insert reduced patellar contact force at knee flexion during posterior stabilized total knee arthroplasty. <i>Clinical Biomechanics</i> , 2020, 76, 105022.	1.2	3
32	The Influences of Chronicity and Meniscal Injuries on Pivot Shift in Anterior Cruciate Ligamentâ€“Deficient Knees: Quantitative Evaluation Using an Electromagnetic Measurement System. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2020, 36, 1398-1406.	2.7	17
33	Sciatic Nerve Palsy following Curved Periacetabular Osteotomy. <i>Case Reports in Orthopedics</i> , 2020, 2020, 1-4.	0.3	0
34	Altered microRNA profile during fracture healing in rats with diabetes. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 135.	2.3	11
35	Transcutaneous CO <sub>2</sub> application accelerates fracture repair in streptozotocin-induced type I diabetic rats. <i>BMJ Open Diabetes Research and Care</i> , 2020, 8, e001129.	2.8	3
36	Infected Gustilo IIIB open knee joint fracture treated with an antimicrobial iodine-supported megaprosthesis: A case report. <i>Journal of Orthopaedic Science</i> , 2020, , .	1.1	0

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37	Escherichia coli-derived BMP-2-absorbed $\beta$ -TCP granules induce bone regeneration in rabbit critical-sized femoral segmental defects. <i>International Orthopaedics</i> , 2019, 43, 1247-1253.	1.9	17
38	A Periprosthetic Femoral Fracture with Characteristics of Atypical Femoral Fracture. <i>Case Reports in Orthopedics</i> , 2019, 2019, 1-6.	0.3	6
39	Medial clavicle pseudarthrosis successfully treated with an inverted distal clavicle locking plate. <i>Annals of Medicine and Surgery</i> , 2019, 44, 1-4.	1.1	3
40	Minimally invasive plate osteosynthesis for humeral shaft nonunion: A report of two cases. <i>Annals of Medicine and Surgery</i> , 2019, 48, 43-47.	1.1	0
41	Insufficiency and deficiency of vitamin D in elderly patients with fragility fractures of the hip in the Japanese population. <i>Journal of Orthopaedic Surgery</i> , 2019, 27, 230949901987751.	1.0	10
42	Topical cutaneous application of CO <sub>2</sub> accelerates bone healing in a rat femoral defect model. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 237.	1.9	10
43	Analysis of anterior tibial subluxation to the femur at maximum extension in anterior cruciate ligament-deficient knees. <i>Journal of Orthopaedic Surgery</i> , 2019, 27, 230949901983360.	1.0	10
44	Topical cutaneous application of carbon dioxide via a hydrogel for improved fracture repair: results of phase I clinical safety trial. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 563.	1.9	4
45	Ras associated with diabetes may play a role in fracture nonunion development in rats. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 602.	1.9	3
46	Increase in carbon dioxide accelerates the performance of endurance exercise in rats. <i>Journal of Physiological Sciences</i> , 2018, 68, 463-470.	2.1	9
47	The medial tibial joint line elevation over 5Âmm restrained the improvement of knee extension angle in unicompartmental knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 1737-1742.	4.2	11
48	Rescue of ankylosing hip following open reduction and internal fixation of acetabular fracture by surgical resection of heterotopic ossification: A case report. <i>International Journal of Surgery Case Reports</i> , 2018, 53, 107-111.	0.6	1
49	Locking plate osteosynthesis for a femoral fracture and subsequent nonunion in a patient with osteopetrosis. <i>International Journal of Surgery Case Reports</i> , 2018, 51, 395-399.	0.6	10
50	Minimally Invasive Treatment for Tibial Malrotation after Locked Intramedullary Nailing. <i>Case Reports in Orthopedics</i> , 2018, 2018, 1-4.	0.3	3
51	A prospective randomized comparative study to determine appropriate edoxaban administration period, to prevent deep vein thromboembolism in patients with total knee arthroplasty. <i>Journal of Orthopaedic Science</i> , 2018, 23, 1005-1010.	1.1	4
52	Transcutaneous carbon dioxide application suppresses bone destruction caused by breast cancer metastasis. <i>Oncology Reports</i> , 2018, 40, 2079-2087.	2.6	9
53	Thrombin-antithrombin III complex tests. <i>Journal of Orthopaedic Surgery</i> , 2017, 25, 017084061668450.	1.0	14
54	Altered expression of SDF-1 and CXCR4 during fracture healing in diabetes mellitus. <i>International Orthopaedics</i> , 2017, 41, 1211-1217.	1.9	9

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55	Transcutaneous carbon dioxide application accelerates muscle injury repair in rat models. <i>International Orthopaedics</i> , 2017, 41, 1007-1015.	1.9	19
56	Triweekly administration of parathyroid hormone (1 $\alpha$ -34) accelerates bone healing in a rat refractory fracture model. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 545.	1.9	14
57	Antibiotic-impregnated calcium phosphate cement as part of a comprehensive treatment for patients with established orthopaedic infection. <i>Journal of Orthopaedic Science</i> , 2016, 21, 539-545.	1.1	16
58	Profiling microRNA expression during fracture healing. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 83.	1.9	70
59	Effects of parathyroid hormone 1-34 on osteogenic and chondrogenic differentiation of human fracture haematoma-derived cells in vitro. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, E365-E371.	2.7	2
60	Treatment of ununited femoral neck fractures in young adults using low-intensity pulsed ultrasound: Report of 2 cases. <i>International Journal of Surgery Case Reports</i> , 2016, 21, 59-62.	0.6	5
61	Human pseudoarthrosis tissue contains cells with osteogenic potential. <i>Injury</i> , 2016, 47, 1184-1190.	1.7	10
62	Rate of Venous Thromboembolism after Complex Lower-Limb Fracture Surgery without Pharmacological Prophylaxis. <i>Journal of Orthopaedic Surgery</i> , 2015, 23, 37-40.	1.0	12
63	Rare non-traumatic periprosthetic femoral fracture with features of an atypical femoral fracture: a case report. <i>Journal of Medical Case Reports</i> , 2015, 9, 103.	0.8	28
64	D-dimer levels to screen for venous thromboembolism in patients with fractures caused by high-energy injuries. <i>Journal of Orthopaedic Science</i> , 2015, 20, 682-688.	1.1	17
65	Retrograde intramedullary nailing for the treatment of femoral medial condyle fracture nonunion. <i>Strategies in Trauma and Limb Reconstruction</i> , 2015, 10, 117-122.	0.8	2
66	Topical Cutaneous CO <sub>2</sub> Application by Means of a Novel Hydrogel Accelerates Fracture Repair in Rats. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 2077-2084.	3.0	22
67	Bicondylar Hoffa Fracture Successfully Treated with Headless Compression Screws. <i>Case Reports in Orthopedics</i> , 2014, 2014, 1-4.	0.3	10
68	Missed Massive Morel-Lavallee Lesion. <i>Case Reports in Orthopedics</i> , 2014, 2014, 1-4.	0.3	13
69	Causative factors of fracture nonunion: the proportions of mechanical, biological, patient-dependent, and patient-independent factors. <i>Journal of Orthopaedic Science</i> , 2014, 19, 120-124.	1.1	68
70	Clinical and radiological results of locking plate fixation for periprosthetic femoral fractures around hip arthroplasties: a retrospective multi-center study. <i>Journal of Orthopaedic Science</i> , 2014, 19, 984-990.	1.1	4
71	Efficient derivation of osteoprogenitor cells from induced pluripotent stem cells for bone regeneration. <i>International Orthopaedics</i> , 2014, 38, 1779-1785.	1.9	14
72	Outcome of Fixation for Nonunion of Extremities. <i>Journal of Orthopaedic Surgery</i> , 2014, 22, 309-312.	1.0	7

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73	Comparison of Radiographic Appearance and Bone Scintigraphy in Fracture Nonunions. <i>Orthopedics</i> , 2014, 37, e44-50.	1.1	24
74	Tactile Surgical Navigation System for Complex Acetabular Fracture Surgery. <i>Orthopedics</i> , 2014, 37, 237-242.	1.1	38
75	Traumatic subchondral fracture of the femoral head in a healed trochanteric fracture. <i>BMJ Case Reports</i> , 2014, 2014, bcr2014205161-bcr2014205161.	0.5	0
76	In vitro hypertrophy and calcification of human fracture haematoma-derived cells in chondrogenic differentiation. <i>International Orthopaedics</i> , 2013, 37, 961-967.	1.9	7
77	Effect of Low-Intensity Pulsed Ultrasound on Bone Morphogenetic Protein 7-Induced Osteogenic Differentiation of Human Nonunion Tissue-Derived Cells In Vitro. <i>Journal of Ultrasound in Medicine</i> , 2013, 32, 915-922.	1.7	19
78	Nonunion with Breakage of Gamma Nail and Subsequent Fracture in the Ipsilateral Femur. <i>Case Reports in Medicine</i> , 2013, 2013, 1-4.	0.7	2
79	Breakage of a Third Generation Gamma Nail: A Case Report and Review of the Literature. <i>Case Reports in Orthopedics</i> , 2013, 2013, 1-5.	0.3	28
80	Low-Intensity Pulsed Ultrasound Enhances BMP-7-Induced Osteogenic Differentiation of Human Fracture Hematoma-Derived Progenitor Cells In Vitro. <i>Journal of Orthopaedic Trauma</i> , 2013, 27, 29-33.	1.4	18
81	Radiation-Associated Fracture Nonunion of the Clavicle Treated with Locking Plate Fixation and Autologous Bone Grafting. <i>Case Reports in Medicine</i> , 2012, 2012, 1-3.	0.7	5
82	Backout of the Helical Blade of Proximal Femoral Nail Antirotation and Accompanying Fracture Nonunion. <i>Orthopedics</i> , 2012, 35, e1264-6.	1.1	6
83	Venous Thromboembolism in Japanese Patients with Fractures of the Pelvis and/or Lower Extremities Using Physical Prophylaxis Alone. <i>Journal of Orthopaedic Surgery</i> , 2012, 20, 196-200.	1.0	11
84	Incidence of venous thromboembolism in pelvic and acetabular fractures in the Japanese population. <i>Journal of Orthopaedic Science</i> , 2012, 17, 233-238.	1.1	19
85	Incidence of Venous Thromboembolism in Fractures Around and Below the Knee With Physical Prophylaxis. <i>Orthopedics</i> , 2012, 35, e1476-82.	1.1	5
86	The effect of transcutaneous application of carbon dioxide (CO <sub>2</sub> ) on skeletal muscle. <i>Biochemical and Biophysical Research Communications</i> , 2011, 407, 148-152.	2.1	46
87	A Novel System for Transcutaneous Application of Carbon Dioxide Causing an "Artificial Bohr Effect" in the Human Body. <i>PLoS ONE</i> , 2011, 6, e24137.	2.5	67
88	Local Transplantation of G-CSF-Mobilized CD34+ Cells in a Patient with Tibial Nonunion: A Case Report. <i>Cell Transplantation</i> , 2011, 20, 1491-1496.	2.5	40
89	Differential gene expression and immunolocalization of insulin-like growth factors and insulin-like growth factor binding proteins between experimental nonunions and standard healing fractures. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1820-1826.	2.3	15
90	Human hypertrophic nonunion tissue contains mesenchymal progenitor cells with multilineage capacity in vitro. <i>Journal of Orthopaedic Research</i> , 2009, 27, 208-215.	2.3	46

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91	Vancomycin-impregnated Calcium Phosphate Cement for Methicillin-resistant <i>Staphylococcus aureus</i> Femoral Osteomyelitis. <i>Orthopedics</i> , 2007, 30, 320-321.	1.1	22
92	Global gene profiling reveals a downregulation of BMP gene expression in experimental atrophic nonunions compared to standard healing fractures. <i>Journal of Orthopaedic Research</i> , 2006, 24, 1463-1471.	2.3	106