

# Nobuhiko Sugano

## List of Publications by Year in descending order

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342  
papers

10,084  
citations

34016

52  
h-index

64668

79  
g-index

355  
all docs

355  
docs citations

355  
times ranked

5919  
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2001 revised criteria for diagnosis, classification, and staging of idiopathic osteonecrosis of the femoral head. <i>Journal of Orthopaedic Science</i> , 2002, 7, 601-605.	0.5	345
2	A Comparison of Alternative Methods of Measuring Femoral Anteversion. <i>Journal of Computer Assisted Tomography</i> , 1998, 22, 610-614.	0.5	246
3	Measurements of Pelvic Flexion Angle Using Three-Dimensional Computed Tomography. <i>Clinical Orthopaedics and Related Research</i> , 2003, 411, 140-151.	0.7	221
4	Initial MRI findings of non-traumatic osteonecrosis of the femoral head in renal allograft recipients. <i>Magnetic Resonance Imaging</i> , 1997, 15, 1017-1023.	1.0	158
5	The 2019 Revised Version of Association Research Circulation Osseous Staging System of Osteonecrosis of the Femoral Head. <i>Journal of Arthroplasty</i> , 2020, 35, 933-940.	1.5	155
6	Planning Acetabular Redirection Osteotomies Based on Joint Contact Pressures. <i>Clinical Orthopaedics and Related Research</i> , 1999, 364, 134-143.	0.7	153
7	Computer-Assisted Orthopaedic Surgery and Robotic Surgery in Total Hip Arthroplasty. <i>Clinics in Orthopedic Surgery</i> , 2013, 5, 1.	0.8	147
8	Mid-term results of cementless total hip replacement using a ceramic-on-ceramic bearing with and without computer navigation. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2007, 89-B, 455-460.	3.4	141
9	Does Alendronate Prevent Collapse in Osteonecrosis of the Femoral Head?. <i>Clinical Orthopaedics and Related Research</i> , 2006, 443, 273-279.	0.7	137
10	Computer-assisted orthopedic surgery. <i>Journal of Orthopaedic Science</i> , 2003, 8, 442-448.	0.5	132
11	Longitudinal Evaluation of Time Related Bone Remodeling After Cementless Total Hip Arthroplasty. <i>Clinical Orthopaedics and Related Research</i> , 1997, 339, 121-131.	0.7	131
12	Gender differences in 3D morphology and bony impingement of human hips. <i>Journal of Orthopaedic Research</i> , 2011, 29, 333-339.	1.2	129
13	Japanese Orthopaedic Association Hip Disease Evaluation Questionnaire (JHEQ): a patient-based evaluation tool for hip-joint disease. The Subcommittee on Hip Disease Evaluation of the Clinical Outcome Committee of the Japanese Orthopaedic Association. <i>Journal of Orthopaedic Science</i> , 2012, 17, 25-38.	0.5	118
14	Cross-Modality Image Synthesis from Unpaired Data Using CycleGAN. <i>Lecture Notes in Computer Science</i> , 2018, , 31-41.	1.0	108
15	A Comparison between Robotic-assisted and Manual Implantation of Cementless Total Hip Arthroplasty. <i>Clinical Orthopaedics and Related Research</i> , 2010, 468, 1072-1081.	0.7	106
16	Recovery of walking speed and symmetrical movement of the pelvis and lower extremity joints after unilateral THA. <i>Journal of Biomechanics</i> , 2004, 37, 443-455.	0.9	104
17	Influence of component positions on dislocation. <i>Journal of Arthroplasty</i> , 2004, 19, 162-166.	1.5	103
18	Meta-analysis of 208370 East Asians identifies 113 susceptibility loci for systemic lupus erythematosus. <i>Annals of the Rheumatic Diseases</i> , 2021, 80, 632-640.	0.5	103

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19	Effects of rotation on measurement of lower limb alignment for knee osteotomy. Journal of Orthopaedic Research, 2004, 22, 1248-1253.	1.2	100
20	Significance of lesion size and location in the prediction of collapse of osteonecrosis of the femoral head: a new three-dimensional quantification using magnetic resonance imaging. Journal of Orthopaedic Research, 2002, 20, 130-136.	1.2	94
21	Cementless Modular Total Hip Arthroplasty with Subtrochanteric Shortening Osteotomy for Hips with Developmental Dysplasia. Journal of Bone and Joint Surgery - Series A, 2011, 93, 548-555.	1.4	92
22	Anatomic Hip Range of Motion After Implantation During Total Hip Arthroplasty as Measured by a Navigation System. Journal of Arthroplasty, 2007, 22, 946-952.	1.5	91
23	Three-dimensional distribution of acetabular cartilage thickness in patients with hip dysplasia: a fully automated computational analysis of MR imaging. Osteoarthritis and Cartilage, 2004, 12, 650-657.	0.6	88
24	Comparison Between Hand Rasping and Robotic Milling for Stem Implantation in Cementless Total Hip Arthroplasty. Journal of Arthroplasty, 2006, 21, 957-966.	1.5	88
25	Automated segmentation of acetabulum and femoral head from 3-D CT images. IEEE Transactions on Information Technology in Biomedicine, 2003, 7, 329-343.	3.6	87
26	Prognostication of Osteonecrosis of the Femoral Head in Patients With Systemic Lupus Erythematosus by Magnetic Resonance Imaging. Clinical Orthopaedics and Related Research, 1994, 305, 190-199.	0.7	83
27	Progression and Cessation of Collapse in Osteonecrosis of the Femoral Head. Clinical Orthopaedics and Related Research, 2002, 400, 149-157.	0.7	81
28	Automated Muscle Segmentation from Clinical CT Using Bayesian U-Net for Personalized Musculoskeletal Modeling. IEEE Transactions on Medical Imaging, 2020, 39, 1030-1040.	5.4	81
29	Fat-Suppressed 3D Spoiled Gradient-Echo MRI and MDCT Arthrography of Articular Cartilage in Patients with Hip Dysplasia. American Journal of Roentgenology, 2005, 185, 379-385.	1.0	79
30	Etiologic Classification Criteria of ARCO on Femoral Head Osteonecrosis Part 1: Glucocorticoid-Associated Osteonecrosis. Journal of Arthroplasty, 2019, 34, 163-168.e1.	1.5	79
31	Accuracy Evaluation of Surface-Based Registration Methods in a Computer Navigation System for Hip Surgery Performed Through a Posterolateral Approach. Computer Aided Surgery, 2001, 6, 195-203.	1.8	78
32	Evaluation of the Accuracy of Computed Tomography-Based Navigation for Femoral Stem Orientation and Leg Length Discrepancy. Journal of Arthroplasty, 2011, 26, 674-679.	1.5	78
33	Does CT-Based Navigation Improve the Long-Term Survival in Ceramic-on-Ceramic THA?. Clinical Orthopaedics and Related Research, 2012, 470, 3054-3059.	0.7	76
34	Accuracy of angle and position of the cup using computed tomography-based navigation systems in total hip arthroplasty. Computer Aided Surgery, 2013, 18, 187-194.	1.8	75
35	Evaluation of Periprosthetic Bone-Remodeling After Cementless Total Hip Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2000, 82, 1426-1431.	1.4	72
36	Bioactive silicon nitride: A new therapeutic material for osteoarthropathy. Scientific Reports, 2017, 7, 44848.	1.6	70

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37	Experimental and computational simulation of total hip arthroplasty dislocation. <i>Orthopedic Clinics of North America</i> , 2001, 32, 553-567.	0.5	69
38	Dynamic Measurements of Hip Movement in Deep Bending Activities After Total Hip Arthroplasty Using a 4-Dimensional Motion Analysis System. <i>Journal of Arthroplasty</i> , 2012, 27, 1562-1568.	1.5	68
39	Computer Simulation: How Can it Help the Surgeon Optimize Implant Position?. <i>Clinical Orthopaedics and Related Research</i> , 2003, 417, 242-252.	0.7	68
40	Validity and responsiveness of the Oxford hip score in a prospective study with Japanese total hip arthroplasty patients. <i>Journal of Orthopaedic Science</i> , 2009, 14, 35-39.	0.5	64
41	Osteonecrosis of the Femoral Head: an Updated Review of ARCO on Pathogenesis, Staging and Treatment. <i>Journal of Korean Medical Science</i> , 2021, 36, e177.	1.1	64
42	Which Classification System Is Most Useful for Classifying Osteonecrosis of the Femoral Head?. <i>Clinical Orthopaedics and Related Research</i> , 2018, 476, 1240-1249.	0.7	62
43	Three-dimensional shape of the dysplastic femur: implications for THR. <i>Clinical Orthopaedics and Related Research</i> , 2003, , 27-40.	0.7	60
44	Initial changes of non-traumatic osteonecrosis of femoral head in fat suppression images: bone marrow edema was not found before the appearance of band patterns. <i>Magnetic Resonance Imaging</i> , 2001, 19, 985-991.	1.0	59
45	Mechanical alignment of tibial stems in revision total knee arthroplasty. <i>Journal of Arthroplasty</i> , 2003, 18, 33-36.	1.5	59
46	Five-Year Results of Metal-on-Metal Resurfacing Arthroplasty in Asian Patients. <i>Journal of Arthroplasty</i> , 2007, 22, 176-183.	1.5	58
47	Eleven- to 14-year Follow-up Results of Cementless Total Hip Arthroplasty Using a Third-generation Alumina Ceramic-on-ceramic Bearing. <i>Journal of Arthroplasty</i> , 2012, 27, 736-741.	1.5	57
48	Iliosacral screw insertion using CT-3D-fluoroscopy matching navigation. <i>Injury</i> , 2014, 45, 988-994.	0.7	57
49	Difference in Stem Alignment Between the Direct Anterior Approach and the Posterolateral Approach in Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2015, 30, 1761-1766.	1.5	57
50	Articular cartilage evaluation in osteoarthritis of the hip with MR imaging under continuous leg traction. <i>Magnetic Resonance Imaging</i> , 1998, 16, 871-875.	1.0	56
51	Computed-Tomography-Based Computer Preoperative Planning for Total Hip Arthroplasty. <i>Computer Aided Surgery</i> , 1998, 3, 320-324.	1.8	56
52	Femoral anteversion, femoral offset, and abductor lever arm after total hip arthroplasty using a modular femoral neck system. <i>Journal of Orthopaedic Science</i> , 2002, 7, 62-67.	0.5	56
53	Distribution of TRAP $\alpha$ -positive cells and expression of HIF $\alpha$ , VEGF, and FGF $\beta$ in the reparative reaction in patients with osteonecrosis of the femoral head. <i>Journal of Orthopaedic Research</i> , 2009, 27, 694-700.	1.2	56
54	Jogging After Total Hip Arthroplasty. <i>American Journal of Sports Medicine</i> , 2014, 42, 131-137.	1.9	55

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55	Experimental Steroid-Induced Osteonecrosis in Adult Rabbits With Hypersensitivity Vasculitis. <i>Clinical Orthopaedics and Related Research</i> , 1992, &NA;, 617772.	0.7	54
56	Clinical accuracy evaluation of femoral canal preparation using the ROBODOC system. <i>Journal of Orthopaedic Science</i> , 2004, 9, 452-461.	0.5	53
57	Minimum Five-Year Follow-Up Wear Measurement of Longevity Highly Cross-Linked Polyethylene Cup Against Cobalt-Chromium or Zirconia Heads. <i>Journal of Arthroplasty</i> , 2010, 25, 1182-1187.	1.5	53
58	Interfacial shear strength of bioactiveâ€œcoated carbon fiber reinforced polyetheretherketone after in vivo implantation. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1618-1625.	1.2	51
59	Does Pelvic Sagittal Inclination in the Supine and Standing Positions Change Over 10 Years of Follow-Up After Total Hip Arthroplasty?. <i>Journal of Arthroplasty</i> , 2017, 32, 877-882.	1.5	51
60	Etiologic Classification Criteria of ARCO on Femoral Head Osteonecrosis Part 2: Alcohol-Associated Osteonecrosis. <i>Journal of Arthroplasty</i> , 2019, 34, 169-174.e1.	1.5	51
61	Comparison Between Bipolar Hemiarthroplasty and THA for Osteonecrosis of the Femoral Head. <i>Clinical Orthopaedics and Related Research</i> , 2004, 424, 161-165.	0.7	49
62	Computer-Assisted Preoperative Planning for Reduction of Proximal Femoral Fracture Using 3-D-CT Data. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 749-759.	2.5	48
63	Raman spectroscopy investigation of load-assisted microstructural alterations in human knee cartilage: Preliminary study into diagnostic potential for osteoarthritis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 31, 77-85.	1.5	48
64	Automated Segmentation of the Femur and Pelvis from 3D CT Data of Diseased Hip Using Hierarchical Statistical Shape Model of Joint Structure. <i>Lecture Notes in Computer Science</i> , 2009, 12, 811-818.	1.0	47
65	Predicting the position of the femoral head center. <i>Journal of Arthroplasty</i> , 1999, 14, 102-107.	1.5	46
66	Embolus events during total hip arthroplasty: An echocardiographic study. <i>Journal of Arthroplasty</i> , 2003, 18, 186-192.	1.5	46
67	Loaded Cartilage T2 Mapping in Patients with Hip Dysplasia. <i>Radiology</i> , 2010, 256, 955-965.	3.6	46
68	In vivo implant fixation of carbon fiberâ€œreinforced PEEK hip prostheses in an ovine model. <i>Journal of Orthopaedic Research</i> , 2013, 31, 485-492.	1.2	46
69	ARCO Consensus on the Pathogenesis of Non-traumatic Osteonecrosis of the Femoral Head. <i>Journal of Korean Medical Science</i> , 2021, 36, e65.	1.1	46
70	Effect of robotic milling on periprosthetic bone remodeling. <i>Journal of Orthopaedic Research</i> , 2007, 25, 1062-1069.	1.2	45
71	Comparison of Mini-Incision Total Hip Arthroplasty Through an Anterior Approach and a Posterior Approach Using Navigation. <i>Orthopedic Clinics of North America</i> , 2009, 40, 365-370.	0.5	45
72	Anatomical Hip Range of Motion After Implantation During Total Hip Arthroplasty With a Large Change in Pelvic Inclination. <i>Journal of Arthroplasty</i> , 2012, 27, 1641-1650.e1.	1.5	45

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73	The Results of a Press-Fit-Only Technique for Acetabular Fixation in Hip Dysplasia. <i>Journal of Arthroplasty</i> , 2011, 26, 562-568.	1.5	44
74	Comparison of Femoral Morphology and Bone Mineral Density between Femoral Neck Fractures and Trochanteric Fractures. <i>Clinical Orthopaedics and Related Research</i> , 2011, 469, 884-889.	0.7	44
75	Surface-based registration accuracy of CT-based image-guided spine surgery. <i>European Spine Journal</i> , 2005, 14, 291-297.	1.0	43
76	Articular Cartilage Abnormalities in Dysplastic Hips Without Joint Space Narrowing. <i>Clinical Orthopaedics and Related Research</i> , 2001, 383, 183-190.	0.7	42
77	Ultrasound Screening of Periarticular Soft Tissue Abnormality Around Metal-on-Metal Bearings. <i>Journal of Arthroplasty</i> , 2012, 27, 895-900.	1.5	41
78	Tailor-made Surgical Guide Reduces Incidence of Outliers of Cup Placement. <i>Clinical Orthopaedics and Related Research</i> , 2010, 468, 1088-1095.	0.7	40
79	Alendronate treatment for hip osteoarthritis: prospective randomized 2-year trial. <i>Clinical Rheumatology</i> , 2013, 32, 1759-1766.	1.0	40
80	Synovial joint fluid cytokine levels in hip disease. <i>Rheumatology</i> , 2014, 53, 165-172.	0.9	40
81	Proximal Femoral Bone Mineral Density After Resurfacing Total Hip Arthroplasty and After Standard Stem-Type Cementless Total Hip Arthroplasty, Both Having Similar Neck Preservation and the Same Articulation Type. <i>Journal of Arthroplasty</i> , 2007, 22, 1208-1213.	1.5	39
82	Is Vertical-center-anterior Angle Equivalent to Anterior Coverage of the Hip?. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 2865-2871.	0.7	39
83	Bipolar Cup Design May Lead to Osteolysis Around the Uncemented Femoral Component. <i>Clinical Orthopaedics and Related Research</i> , 1995, &NA;, 112-120.	0.7	38
84	Open-configuration MRI study of femoro-acetabular impingement. <i>Journal of Orthopaedic Research</i> , 2007, 25, 1582-1588.	1.2	38
85	Clinical Efficacy of Mechanical Thromboprophylaxis Without Anticoagulant Drugs for Elective Hip Surgery in an Asian Population. <i>Journal of Arthroplasty</i> , 2009, 24, 1254-1257.	1.5	38
86	CT-3D-Fluoroscopy Matching Navigation Can Reduce the Malposition Rate of Iliosacral Screw Insertion for Less-Experienced Surgeons. <i>Journal of Orthopaedic Trauma</i> , 2013, 27, 716-721.	0.7	37
87	Risk of edge-loading and prosthesis impingement due to posterior pelvic tilting after total hip arthroplasty. <i>Clinical Biomechanics</i> , 2014, 29, 607-613.	0.5	37
88	Volume Increases of the Gluteus Maximus, Gluteus Medius, and Thigh Muscles After Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2016, 31, 906-912.e1.	1.5	37
89	A cross-sectional study on the age-related cortical and trabecular bone changes at the femoral head in elderly female hip fracture patients. <i>Scientific Reports</i> , 2019, 9, 305.	1.6	37
90	Early MRI findings of rapidly destructive coxopathy. <i>Magnetic Resonance Imaging</i> , 2001, 19, 47-50.	1.0	36

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91	Localization of RANKL in osteolytic tissue around a loosened joint prosthesis. <i>Journal of Bone and Mineral Metabolism</i> , 2004, 22, 346-51.	1.3	36
92	Computed-tomography-based computer preoperative planning for total hip arthroplasty. <i>Computer Aided Surgery</i> , 1998, 3, 320-4.	1.8	36
93	Change in Pelvic Sagittal Inclination From Supine to Standing Position Before Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2017, 32, 2568-2573.	1.5	35
94	Subchondral fracture begins from the bone resorption area in osteonecrosis of the femoral head: a micro-computerised tomography study. <i>International Orthopaedics</i> , 2018, 42, 1479-1484.	0.9	35
95	Automated CT Segmentation of Diseased Hip Using Hierarchical and Conditional Statistical Shape Models. <i>Lecture Notes in Computer Science</i> , 2013, 16, 190-197.	1.0	35
96	A novel system of four-dimensional motion analysis after total hip arthroplasty. <i>Journal of Orthopaedic Research</i> , 2004, 22, 665-670.	1.2	34
97	Japanese Orthopaedic Association 2019 Guidelines for osteonecrosis of the femoral head. <i>Journal of Orthopaedic Science</i> , 2021, 26, 46-68.	0.5	34
98	MRI evaluation of steroid- or alcohol-related osteonecrosis of the femoral condyle. <i>Acta Orthopaedica</i> , 1998, 69, 598-602.	1.4	33
99	Identification of CXCL12-abundant reticular cells in human adult bone marrow. <i>British Journal of Haematology</i> , 2021, 193, 659-668.	1.2	33
100	Tacrolimus may be Associated With Lower Osteonecrosis Rates After Renal Transplantation. <i>Clinical Orthopaedics and Related Research</i> , 2003, 415, 163-170.	0.7	32
101	Does the Extent of Osteonecrosis Affect the Survival of Hip Resurfacing?. <i>Clinical Orthopaedics and Related Research</i> , 2013, 471, 1926-1934.	0.7	32
102	Spongy metal L�beck hip prostheses for osteoarthritis secondary to hip dysplasia. <i>Journal of Arthroplasty</i> , 1994, 9, 253-262.	1.5	31
103	Effectiveness of the ROBODOC system in preventing intraoperative pulmonary embolism. <i>Acta Orthopaedica</i> , 2003, 74, 264-269.	1.4	31
104	Automated segmentation of necrotic femoral head from 3D MR data. <i>Computerized Medical Imaging and Graphics</i> , 2004, 28, 267-278.	3.5	31
105	Tailor-made surgical guide based on rapid prototyping technique for cup insertion in total hip arthroplasty. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2009, 5, 164-169.	1.2	31
106	3D reconstruction of a femoral shape using a parametric model and two 2D fluoroscopic images. <i>Computer Vision and Image Understanding</i> , 2009, 113, 202-211.	3.0	31
107	Spinal Factors Influencing Change in Pelvic Sagittal Inclination From Supine Position to Standing Position in Patients Before Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2014, 29, 2294-2297.	1.5	31
108	MR-based three-dimensional presentation of cartilage thickness in the femoral head. <i>European Radiology</i> , 2001, 11, 2178-2183.	2.3	30

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109	Limits on the accuracy of 3-D thickness measurement in magnetic resonance images- Effects of voxel anisotropy. IEEE Transactions on Medical Imaging, 2003, 22, 1076-1088.	5.4	30
110	Preoperative templating of femoral components on plain X-rays. Archives of Orthopaedic and Trauma Surgery, 2007, 127, 381-385.	1.3	30
111	Comparison of navigation accuracy in THA between the miniâ€ anterior and â€ posterior approaches. International Journal of Medical Robotics and Computer Assisted Surgery, 2009, 5, 20-25.	1.2	30
112	In vivo kinematic analysis of squatting after total hip arthroplasty. Clinical Biomechanics, 2011, 26, 477-483.	0.5	30
113	Is Ultrasound Screening Reliable for Adverse Local Tissue Reaction After Hip Arthroplasty?. Journal of Arthroplasty, 2014, 29, 2239-2244.	1.5	30
114	Comparison of the accuracy of the cup position and orientation in total hip arthroplasty for osteoarthritis secondary to developmental dysplasia of the hip between the Mako robotic arm-assisted system and computed tomography-based navigation. International Orthopaedics, 2021, 45, 1719-1725.	0.9	30
115	Accuracy evaluation of surface-based registration methods in a computer navigation system for hip surgery performed through a posterolateral approach. Computer Aided Surgery, 2001, 6, 195-203.	1.8	30
116	Detecting cause of dislocation after total hip arthroplasty by patient-specific four-dimensional motion analysis. Clinical Biomechanics, 2013, 28, 182-186.	0.5	29
117	Contralateral Hip in Patients With Unilateral Nontraumatic Osteonecrosis of the Femoral Head. Clinical Orthopaedics and Related Research, 1997, 334, 85-90.	0.7	28
118	Stem fracture of the cementless spongy metal 1/4beck hip prosthesis. Journal of Arthroplasty, 2002, 17, 1021-1027.	1.5	28
119	Extent of Osteonecrosis on MRI Predicts Humeral Head Collapse. Clinical Orthopaedics and Related Research, 2008, 466, 1074-1080.	0.7	28
120	Comparison of the fit and fill between the Anatomic Hip femoral component and the VerSys Taper femoral component using virtual implantation on the ORTHODOC workstation. Journal of Orthopaedic Science, 2003, 8, 352-360.	0.5	27
121	Robot-assisted femoral fracture reduction: Preliminary study in patients and healthy volunteers. Computer Aided Surgery, 2008, 13, 148-156.	1.8	27
122	Hip range of motion (ROM) is less than normal after rotational acetabular osteotomy for developmental dysplasia of the hip: A simulated ROM analysis. Journal of Orthopaedic Research, 2016, 34, 217-223.	1.2	27
123	Progression of osteoarthritis of the knee after unilateral total hip arthroplasty: minimum 10-year follow-up study. Archives of Orthopaedic and Trauma Surgery, 2009, 129, 149-154.	1.3	26
124	Novel Surface Modifications of Carbon Fiberâ€ Reinforced Polyetheretherketone Hip Stem in an Ovine Model. Artificial Organs, 2012, 36, 62-70.	1.0	26
125	Automated preoperative planning of femoral stem in total hip arthroplasty from 3D CT data: Atlas-based approach and comparative study. Medical Image Analysis, 2012, 16, 415-426.	7.0	26
126	Temporal Trends in Characteristics of Newly Diagnosed Nontraumatic Osteonecrosis of the Femoral Head From 1997 to 2011: A Hospital-Based Sentinel Monitoring System in Japan. Journal of Epidemiology, 2015, 25, 437-444.	1.1	26



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127	Can Anatomic Measurements of Stem Anteversion Angle Be Considered as the Functional Anteversion Angle?. <i>Journal of Arthroplasty</i> , 2018, 33, 595-600.	1.5	26
128	Is the transverse acetabular ligament a reliable cup orientation guide?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 474-480.	1.2	25
129	Application of Computed Tomography-Based Navigation for Revision Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2013, 28, 1806-1810.	1.5	25
130	Automated muscle segmentation from CT images of the hip and thigh using a hierarchical multi-atlas method. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 977-986.	1.7	25
131	Comparison of Fit and Fill Between Anatomic Stem and Straight Tapered Stem Using Virtual Implantation on the ORTHODOC Workstation. <i>Computer Aided Surgery</i> , 2001, 6, 290-296.	1.8	24
132	Three-dimensional topographical variation of femoral cartilage T2 in healthy volunteer knees. <i>Skeletal Radiology</i> , 2013, 42, 363-370.	1.2	24
133	Postoperative Limb-Offset Discrepancy Notably Affects Soft-Tissue Tension in Total Hip Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 1548-1554.	1.4	24
134	Bipolar Prosthetic Replacement for the Treatment of Avascular Necrosis of the Femoral Head. <i>Clinical Orthopaedics and Related Research</i> , 1992, &NA;, 121???127.	0.7	23
135	Segmentation of avascular necrosis of the femoral head using 3-D MR images. <i>Computerized Medical Imaging and Graphics</i> , 2001, 25, 511-521.	3.5	23
136	Natural Course of Asymptomatic Deep Venous Thrombosis in Hip Surgery without Pharmacologic Thromboprophylaxis in an Asian Population. <i>Clinical Orthopaedics and Related Research</i> , 2010, 468, 2430-2436.	0.7	23
137	Genome-wide Association Study of Idiopathic Osteonecrosis of the Femoral Head. <i>Scientific Reports</i> , 2017, 7, 15035.	1.6	23
138	Does Robotic Milling For Stem Implantation in Cementless THA Result in Improved Outcomes Scores or Survivorship Compared with Hand Rasping? Results of a Randomized Trial at 10 Years. <i>Clinical Orthopaedics and Related Research</i> , 2018, 476, 2169-2173.	0.7	23
139	Posterior Pelvic Tilt From Supine to Standing in Patients With Symptomatic Developmental Dysplasia of the Hip. <i>Journal of Orthopaedic Research</i> , 2020, 38, 578-587.	1.2	23
140	Development of a camera model and calibration procedure for oblique-viewing endoscopes. <i>Computer Aided Surgery</i> , 2004, 9, 203-214.	1.8	23
141	The Accuracy of a Mechanical Cup Alignment Guide in Total Hip Arthroplasty (THA) Through Direct Anterior and Posterior Approaches Measured with CT-Based Navigation. <i>Journal of Arthroplasty</i> , 2015, 30, 1561-1564.	1.5	22
142	The Validity of Using the Posterior Condylar Line as a Rotational Reference for the Femur. <i>Journal of Arthroplasty</i> , 2016, 31, 302-306.	1.5	22
143	Correlation between femoral neck version and strain on the femur after insertion of femoral prosthesis. <i>Journal of Orthopaedic Science</i> , 2003, 8, 381-386.	0.5	21
144	Fluoroscopic Bone Fragment Tracking for Surgical Navigation in Femur Fracture Reduction by Incorporating Optical Tracking of Hip Joint Rotation Center. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 1703-1706.	2.5	21

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145	Incidence and predictors of osteonecrosis among cyclosporin- or tacrolimus-treated renal allograft recipients. <i>Rheumatology International</i> , 2011, 31, 165-170.	1.5	21
146	Validation of the femoral component placement during hip resurfacing: a comparison between the conventional jig, patient-specific template, and CT-based navigation. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2013, 9, 223-229.	1.2	21
147	Nationwide multicenter follow-up cohort study of hip arthroplasties performed for osteonecrosis of the femoral head. <i>International Orthopaedics</i> , 2018, 42, 1661-1668.	0.9	21
148	Reproducibility of the Dorr classification and its quantitative indices on plain radiographs. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2019, 105, 17-21.	0.9	21
149	Fully automatic estimation of pelvic sagittal inclination from anterior-posterior radiography image using deep learning framework. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 184, 105282.	2.6	21
150	Stem length and canal filling in uncemented custom-made total hip arthroplasty. <i>International Orthopaedics</i> , 1999, 23, 219-223.	0.9	20
151	Robot-assisted primary cementless total hip arthroplasty using surface registration techniques: a short-term clinical report. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2009, 4, 157-162.	1.7	20
152	Modular neck for prevention of prosthetic impingement in cases with excessively anteverted femur. <i>Clinical Biomechanics</i> , 2011, 26, 944-949.	0.5	20
153	On the role of oxygen vacancies, aliovalent ions and lattice strain in the in vivo wear behavior of alumina hip joints. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 993-1003.	1.5	20
154	Dome (Modified Chiari) Pelvic Osteotomy. <i>Clinical Orthopaedics and Related Research</i> , 2001, 389, 102-112.	0.7	19
155	Measurement of lesion area and volume by three-dimensional spoiled gradient-echo MR imaging in osteonecrosis of the femoral head. <i>Journal of Orthopaedic Research</i> , 2003, 21, 850-858.	1.2	19
156	Gait analysis system for assessment of dynamic loading axis of the knee. <i>Gait and Posture</i> , 2005, 21, 125-130.	0.6	19
157	The Posterior Capsular Ligamentous Complex Contributes to Hip Joint Stability in Distraction. <i>Journal of Arthroplasty</i> , 2018, 33, 919-924.	1.5	19
158	Intraoperative Simulation and Planning Using a Combined Acetabular and Femoral (CAF) Navigation System for Total Hip Replacement. <i>Lecture Notes in Computer Science</i> , 2000, , 1114-1125.	1.0	18
159	High-Performance Computing Service Over the Internet for Intraoperative Image Processing. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2004, 8, 36-46.	3.6	18
160	The Custom Femoral Component is an Effective Option for Congenital Hip Dysplasia. <i>Clinical Orthopaedics and Related Research</i> , 2006, 451, 146-153.	0.7	18
161	Quality of life of patients with osteonecrosis of the femoral head: a multicentre study. <i>International Orthopaedics</i> , 2018, 42, 1517-1525.	0.9	18
162	Factors influencing the accuracy of iliosacral screw insertion using 3D fluoroscopic navigation. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2019, 139, 189-195.	1.3	18

#	ARTICLE	IF	CITATIONS
163	Non-destructively Differentiating the Roles of Creep, Wear and Oxidation in Long-Term In Vivo Exposed Polyethylene Cups. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 2165-2184.	1.9	17
164	Modular acetabular reconstructive cup in acetabular revision total hip arthroplasty at a minimum ten year follow-up. <i>International Orthopaedics</i> , 2013, 37, 605-610.	0.9	17
165	Nationwide investigation into adverse tissue reactions to metal debris after metal-on-metal total hip arthroplasty in Japan. <i>Journal of Orthopaedic Science</i> , 2014, 19, 85-89.	0.5	17
166	Reconciling in vivo and in vitro kinetics of the polymorphic transformation in zirconia-toughened alumina for hip joints: I. Phenomenology. <i>Materials Science and Engineering C</i> , 2017, 72, 252-258.	3.8	17
167	Cluster of Severe Acute Respiratory Syndrome Coronavirus 2 Infections Linked to Music Clubs in Osaka, Japan. <i>Journal of Infectious Diseases</i> , 2020, 222, 1635-1640.	1.9	17
168	Spontaneous Regression of Steroid-related Osteonecrosis of the Knee. <i>Clinical Orthopaedics and Related Research</i> , 2006, 452, 210-215.	0.7	16
169	Surface Topology of Advanced Alumina/Zirconia Composite Femoral Head as Compared with Commercial Femoral Heads Made of Monolithic Zirconia. <i>Journal of the American Ceramic Society</i> , 2011, 94, 945-950.	1.9	16
170	Validation of patient specific surgical guides in total hip arthroplasty. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2014, 10, 113-120.	1.2	16
171	Reconciling in vivo and in vitro kinetics of the polymorphic transformation in zirconia-toughened alumina for hip joints: II. Theory. <i>Materials Science and Engineering C</i> , 2017, 71, 446-451.	3.8	16
172	Reconciling in vivo and in vitro kinetics of the polymorphic transformation in zirconia-toughened alumina for hip joints: III. Molecular scale mechanisms. <i>Materials Science and Engineering C</i> , 2017, 71, 552-557.	3.8	16
173	Clinical Application of Navigation in the Surgical Treatment of a Pelvic Ring Injury and Acetabular Fracture. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 289-305.	0.8	16
174	Gender and disease severity determine proximal femoral morphology in developmental dysplasia of the hip. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1123-1132.	1.2	16
175	A fully automated method for segmentation and thickness determination of hip joint cartilage from 3D MR data. <i>International Congress Series</i> , 2001, 1230, 352-358.	0.2	15
176	Evaluation of femoral perfusion in a non-traumatic rabbit osteonecrosis model with T2*-weighted dynamic MRI. <i>Journal of Orthopaedic Research</i> , 2003, 21, 341-351.	1.2	15
177	Application of three-dimensional magnetic resonance image registration for monitoring hip joint diseases. <i>Magnetic Resonance Imaging</i> , 2005, 23, 665-670.	1.0	15
178	Influence of knee positions on $T_2$ , $T_2^*$ , and dGEMRIC mapping in porcine knee cartilage. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 707-714.	1.9	15
179	Eight-year wear analysis in Longevity highly cross-linked polyethylene liners comparing 26- and 32-mm heads. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2011, 131, 1731-1737.	1.3	15
180	Hip range of motion during daily activities in patients with posterior pelvic tilt from supine to standing position. <i>Journal of Orthopaedic Research</i> , 2015, 33, 542-547.	1.2	15

#	ARTICLE	IF	CITATIONS
181	Mechanisms induced by transition metal contaminants and their effect on the hydrothermal stability of zirconia-containing bioceramics: an XPS study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28929-28940.	1.3	15
182	Comparison of fit and fill between anatomic stem and straight tapered stem using virtual implantation on the ORTHODOC workstation. <i>Computer Aided Surgery</i> , 2001, 6, 290-296.	1.8	15
183	Contrast-enhanced magnetic resonance imaging in a nontraumatic rabbit osteonecrosis model. <i>Journal of Orthopaedic Research</i> , 1999, 17, 784-792.	1.2	14
184	Camera Model and Calibration Procedure for Oblique-Viewing Endoscope. <i>Lecture Notes in Computer Science</i> , 2003, , 373-381.	1.0	14
185	Application of 3D-MR image registration to monitor diseases around the knee joint. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 656-660.	1.9	14
186	Four-dimensional model of the lower extremity after total hip arthroplasty. <i>Journal of Biomechanics</i> , 2005, 38, 2397-2405.	0.9	14
187	Longitudinal quantitative evaluation of lesion size change in femoral head osteonecrosis using three-dimensional magnetic resonance imaging and image registration. <i>Journal of Orthopaedic Research</i> , 2006, 24, 1231-1239.	1.2	14
188	Repair in osteonecrosis of the femoral head: MR imaging features at long-term follow-up. <i>Clinical Rheumatology</i> , 2010, 29, 841-848.	1.0	14
189	Kinetics and the role of off-stoichiometry in the environmentally driven phase transformation of commercially available zirconia femoral heads. <i>Acta Biomaterialia</i> , 2012, 8, 1639-1647.	4.1	14
190	Cement Removal from the Femur Using the ROBODOC System in Revision Total Hip Arthroplasty. <i>Advances in Orthopedics</i> , 2013, 2013, 1-5.	0.4	14
191	Comparison of rotational acetabular osteotomy performed with navigation by surgeons with different levels of experience of osteotomies. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 841-853.	1.7	14
192	Bayesian Segmentation of Hip and Thigh Muscles in Metal Artifact-Contaminated CT Using Convolutional Neural Network-Enhanced Normalized Metal Artifact Reduction. <i>Journal of Signal Processing Systems</i> , 2020, 92, 335-344.	1.4	14
193	Change in the locus of dynamic loading axis on the knee joint after high tibial osteotomy. <i>Gait and Posture</i> , 2005, 21, 271-278.	0.6	13
194	Serious metallosis of a metal head due to fragmented ceramic screws in a cemented THA. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2006, 126, 192-196.	1.3	13
195	Polarized Raman analysis of the molecular rearrangement and residual strain on the surface of retrieved polyethylene tibial plates. <i>Acta Biomaterialia</i> , 2011, 7, 1150-1159.	4.1	13
196	Characteristics of bone turnover markers in rapidly destructive coxopathy. <i>Journal of Bone and Mineral Metabolism</i> , 2017, 35, 412-418.	1.3	13
197	Transition metals increase hydrothermal stability of yttria-tetragonal zirconia polycrystals (3Y-TZP). <i>Journal of the European Ceramic Society</i> , 2018, 38, 3573-3577.	2.8	13
198	Factors related to disagreement in implant size between preoperative CT-based planning and the actual implants used intraoperatively for total hip arthroplasty. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 551-562.	1.7	13

#	ARTICLE	IF	CITATIONS
199	Soft tissue tension is four times lower in the unstable primary total hip arthroplasty. <i>International Orthopaedics</i> , 2018, 42, 2059-2065.	0.9	13
200	Clinical outcomes of proximal femoral fractures treated with a novel carbon fiber-reinforced polyetheretherketone intramedullary nail. <i>Injury</i> , 2020, 51, 678-682.	0.7	13
201	Effectiveness of the ROBODOC system in preventing intraoperative pulmonary embolism. <i>Acta Orthopaedica</i> , 2003, 74, 264-269.	1.4	13
202	Analysis of Survivorship After Total Hip Arthroplasty Using a Ceramic Head. <i>Clinical Orthopaedics and Related Research</i> , 2001, 391, 198-209.	0.7	12
203	Clinical and Laboratory Wear Studies of Zirconia-on-UHMWPE Combination in Cementless THA. <i>Key Engineering Materials</i> , 2003, 240-242, 823-826.	0.4	12
204	Evaluation of Phase Stability in Zirconia Femoral Heads From Different Manufacturers After In Vitro Testing or In Vivo Retrieval. <i>Journal of Arthroplasty</i> , 2009, 24, 1225-1230.	1.5	12
205	Nondestructive inspection of phase transformation in zirconia-containing hip joints by confocal Raman spectroscopy. <i>Journal of Biomedical Optics</i> , 2013, 18, 127002.	1.4	12
206	Fluctuation of Cup Orientation During Press-Fit Insertion: A Possible Cause of Malpositioning. <i>Journal of Arthroplasty</i> , 2015, 30, 1847-1851.	1.5	12
207	Estimation of attachment regions of hip muscles in CT image using muscle attachment probabilistic atlas constructed from measurements in eight cadavers. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 733-742.	1.7	12
208	Development of an open-source measurement system to assess the areal bone mineral density of the proximal femur from clinical CT images. <i>Archives of Osteoporosis</i> , 2022, 17, 17.	1.0	12
209	Serial magnetic resonance imaging in a non-traumatic rabbit osteonecrosis model: an experimental longitudinal study. <i>Magnetic Resonance Imaging</i> , 2000, 18, 897-905.	1.0	11
210	Bone scintigraphy screening for osteonecrosis of the shoulder in patients with non-traumatic osteonecrosis of the femoral head. <i>Skeletal Radiology</i> , 2002, 31, 650-655.	1.2	11
211	Scintigraphic image patterns in dysplastic coxarthrosis: Evaluation with reference to radiographic findings in 210 hips. <i>Acta Orthopaedica</i> , 2003, 74, 159-164.	1.4	11
212	Hydrolyses of calcium phosphates-allografts composite in physiological solutions. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 379-385.	1.7	11
213	Proximal bone remodelling differed between two types of titanium long femoral components after cementless revision arthroplasty. <i>International Orthopaedics</i> , 2008, 32, 431-436.	0.9	11
214	Application of a CT-3D fluoroscopy matching navigation system to the pelvic and femoral regions. <i>Computer Aided Surgery</i> , 2012, 17, 69-76.	1.8	11
215	Incidence and Natural Course of Initial Polar Gaps in Birmingham Hip Resurfacing Cups. <i>Journal of Arthroplasty</i> , 2012, 27, 1676-1682.	1.5	11
216	Computational measurement of joint space width and structural parameters in normal hips. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2012, 132, 591-598.	1.3	11

#	ARTICLE	IF	CITATIONS
217	Long-term results of Birmingham hip resurfacing arthroplasty in Asian patients. <i>Journal of Artificial Organs</i> , 2018, 21, 117-123.	0.4	11
218	Change in Axial Rotation of the Femur in the Resting Supine Position Following Total Hip Arthroplasty. <i>Artificial Organs</i> , 2018, 42, 290-296.	1.0	11
219	Surgery trends for osteonecrosis of the femoral head: a fifteen-year multi-centre study in Japan. <i>International Orthopaedics</i> , 2020, 44, 761-769.	0.9	11
220	Statistical atlas based extrapolation of CT data. <i>Proceedings of SPIE</i> , 2010, , .	0.8	10
221	High Survival of Dome Pelvic Osteotomy in Patients with Early Osteoarthritis from Hip Dysplasia. <i>Clinical Orthopaedics and Related Research</i> , 2012, 470, 2573-2582.	0.7	10
222	In situ measurements of local temperature and contact stress magnitude during wear of ceramic-on-ceramic hip joints. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 31, 68-76.	1.5	10
223	Cup Implant Planning Based on 2-D/3-D Radiographic Pelvis Reconstruction—First Clinical Results. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 2665-2673.	2.5	10
224	Validation of patient-specific surgical guides for femoral neck cutting in total hip arthroplasty through the anterolateral approach. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2017, 13, e1830.	1.2	10
225	Oxide ceramic femoral heads contribute to the oxidation of polyethylene liners in artificial hip joints. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 82, 168-182.	1.5	10
226	Automated segmentation of an intensity calibration phantom in clinical CT images using a convolutional neural network. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 1855-1864.	1.7	10
227	Multidetector-CT Evaluation of Bone Substitutes Remodeling after Revision Hip Surgery. <i>Clinical Orthopaedics and Related Research</i> , 2006, 442, 158-164.	0.7	9
228	Accuracy of a 3D fluoroscopic navigation system using a flat-panel detector-equipped C-arm. <i>Computer Aided Surgery</i> , 2011, 16, 234-239.	1.8	9
229	Surgical Tool Alignment Guidance by Drawing Two Cross-Sectional Laser-Beam Planes. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 1467-1476.	2.5	9
230	Fixation strength of taper connection at head-neck junction in retrieved carbon fiber-reinforced PEEK hip stems. <i>Journal of Artificial Organs</i> , 2014, 17, 358-363.	0.4	9
231	Effect of soft-tissue impingement on range of motion during posterior approach Total Hip Arthroplasty: an <i>in vivo</i> measurement study. <i>Computer Assisted Surgery</i> , 2016, 21, 132-136.	0.6	9
232	CT-based automated planning of acetabular cup for total hip arthroplasty (THA) based on hybrid use of two statistical atlases. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 2253-2271.	1.7	9
233	Chemistry-driven structural alterations in short-term retrieved ceramic-metal hip implants: Evidence for <i>in vivo</i> incompatibility between ceramic and metal counterparts. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 1469-1480.	1.6	9
234	Validation study of the CT-based cross-sectional evaluation of muscular atrophy and fatty degeneration around the pelvis and the femur. <i>Journal of Orthopaedic Science</i> , 2020, 25, 139-144.	0.5	9

#	ARTICLE	IF	CITATIONS
235	Asia-Pacific venous thromboembolism consensus in knee and hip arthroplasty and hip fracture surgery: Part 2. Mechanical venous thromboembolism prophylaxis. <i>Knee Surgery and Related Research</i> , 2021, 33, 20.	1.8	9
236	A Novel Laser Guidance System for Alignment of Linear Surgical Tools: Its Principles and Performance Evaluation as a Man-machine System. <i>Lecture Notes in Computer Science</i> , 2002, , 125-132.	1.0	9
237	Biological insights into systemic lupus erythematosus through an immune cell-specific transcriptome-wide association study. <i>Annals of the Rheumatic Diseases</i> , 2022, 81, 1273-1280.	0.5	9
238	Pathology of femoral head collapse following transtrochanteric rotational osteotomy for osteonecrosis. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2000, 120, 489-492.	1.3	8
239	Structural modifications induced by compressive plastic deformation in single-step and sequentially irradiated UHMWPE for hip joint components. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 31, 86-99.	1.5	8
240	Is hip dysplasia a common deformity in skeletally mature patients with hereditary multiple exostoses?. <i>Journal of Orthopaedic Science</i> , 2016, 21, 323-326.	0.5	8
241	On the molecular interaction between femoral heads and polyethylene liners in artificial hip joints: phenomenology and molecular scale phenomena. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 015005.	1.7	8
242	Epidemiological study of osteonecrosis of the femoral head using the national registry of designated intractable diseases in Japan. <i>Modern Rheumatology</i> , 2022, 32, 808-814.	0.9	8
243	Expertise Modeling for Automated Planning of Acetabular Cup in Total Hip Arthroplasty Using Combined Bone and Implant Statistical Atlases. <i>Lecture Notes in Computer Science</i> , 2009, 12, 532-539.	1.0	8
244	Pelvic incidence is not associated with the development of hip osteoarthritis. <i>Bone and Joint Journal</i> , 2021, 103-B, 1656-1661.	1.9	8
245	Available range analysis of laser guidance system and its application to monolithic integration with optical tracker. <i>International Congress Series</i> , 2004, 1268, 449-454.	0.2	7
246	Phase transformation of a new generation yttria-stabilized zirconia femoral head after total hip arthroplasty. <i>Modern Rheumatology</i> , 2008, 18, 647-650.	0.9	7
247	Different magnetic resonance imaging features in two types of nontraumatic rabbit osteonecrosis models. <i>Magnetic Resonance Imaging</i> , 2009, 27, 233-239.	1.0	7
248	The Vascular Network in the Femoral Head and Neck After Hip Resurfacing. <i>Journal of Arthroplasty</i> , 2010, 25, 146-151.	1.5	7
249	Acetabular cartilage segmentation in CT arthrography based on a bone-normalized probabilistic atlas. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 433-446.	1.7	7
250	Microstructural modifications induced by accelerated aging and lipid absorption in remelted and annealed UHMWPEs for total hip arthroplasty. <i>Journal of Biomaterials Applications</i> , 2015, 29, 791-800.	1.2	7
251	Improvement of activities of daily living after total hip arthroplasty using a computed tomography-based navigation system. <i>Journal of Artificial Organs</i> , 2017, 20, 152-157.	0.4	7
252	Morphological variation of the anterior inferior iliac spine affects hip range of motion in flexion after rotational acetabular osteotomy. <i>International Orthopaedics</i> , 2018, 42, 1247-1252.	0.9	7

#	ARTICLE	IF	CITATIONS
253	The 2021 Association Research Circulation Osseous Classification for Early-Stage Osteonecrosis of the Femoral Head to Computed Tomography-Based Study. <i>Journal of Arthroplasty</i> , 2022, 37, 1074-1082.	1.5	7
254	Osteonecrosis of the patella in patients with nontraumatic osteonecrosis of the femoral head: MRI findings in 60 patients. <i>Acta Orthopaedica</i> , 2000, 71, 447-451.	1.4	6
255	Phase Transformation and Residual Stresses in Retrieved Zirconia Ball Implant. <i>Key Engineering Materials</i> , 2003, 240-242, 777-780.	0.4	6
256	MRI-based surgical simulation of transtrochanteric rotational osteotomy for femoral head osteonecrosis. <i>Journal of Orthopaedic Research</i> , 2009, 27, 447-451.	1.2	6
257	In-depth profiling of elastic residual stress and the in vivo wear mechanism of self-mating alumina hip joints. <i>Wear</i> , 2012, 284-285, 91-97.	1.5	6
258	Innovative tribometer for in situ spectroscopic analyses of wear mechanisms and phase transformation in ceramic femoral heads. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 31, 45-54.	1.5	6
259	Surface modifications induced by in-vitro wear and oxidation on $^{60}\text{Co}$ -irradiated UHMWPE hip liners belonging to different commercial generations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 53, 414-426.	1.5	6
260	Error range in proximal femoral osteotomy using computer tomography-based navigation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 2087-2096.	1.7	6
261	Tensor-resolved Raman spectroscopic analysis of wear-induced residual stress fields in long-term alumina hip-joint retrievals. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 66, 201-210.	1.5	6
262	The distribution of bone mineral density in the femoral heads of unstable intertrochanteric fractures. <i>Journal of Orthopaedic Surgery</i> , 2018, 26, 230949901877832.	0.4	6
263	Development of 4-Dimensional Human Model System for the Patient after Total Hip Arthroplasty. <i>Lecture Notes in Computer Science</i> , 2002, , 241-247.	1.0	6
264	A Robot Assisted Hip Fracture Reduction with a Navigation System. <i>Lecture Notes in Computer Science</i> , 2008, 11, 501-508.	1.0	6
265	Automated segmentation of hip and thigh muscles in metal artifact contaminated CT using CNN. , 2019, , .		6
266	Scintigraphic Assessment of the Rotated Femoral Head After Transtrochanteric Rotational Osteotomy for Osteonecrosis*. <i>Journal of Bone and Joint Surgery - Series A</i> , 2000, 82, 1421-1425.	1.4	6
267	Automated CT-based 3D surgical planning for total hip replacement: a pilot study. <i>International Congress Series</i> , 2003, 1256, 389-394.	0.2	5
268	System for intraoperative evaluation of soft-tissue-generated forces during total hip arthroplasty by measurement of the pressure distribution in artificial joints. <i>Computer Aided Surgery</i> , 2007, 12, 53-59.	1.8	5
269	3D reconstruction of a femoral shape using a parametric model and two 2D fluoroscopic images. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007, , .	0.0	5
270	Raman spectroscopic study of remelting and annealing-induced effects on microstructure and compressive deformation behavior of highly crosslinked UHMWPE for total hip arthroplasty. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 1762-1770.	1.6	5



#	ARTICLE	IF	CITATIONS
271	Pelvic and Femoral Coordinates and Implant Alignment Representations in THA. , 2018, , 75-88.		5
272	Transitional changes in the incidence of hip osteonecrosis among renal transplant recipients. Journal of Orthopaedic Science, 2020, 25, 466-471.	0.5	5
273	Geographic distribution of the incidence of osteonecrosis of the femoral head in Japan and its relation to smoking prevalence. Modern Rheumatology, 2022, 32, 186-192.	0.9	5
274	Recombinant human FGF-2 for the treatment of early-stage osteonecrosis of the femoral head: TRION, a single-arm, multicenter, Phase II trial. Regenerative Medicine, 2021, 16, 535-548.	0.8	5
275	Limits to the Accuracy of 3D Thickness Measurement in Magnetic Resonance Images. Lecture Notes in Computer Science, 2001, , 803-810.	1.0	5
276	Estimation of Pelvic Sagittal Inclination from Anteroposterior Radiograph Using Convolutional Neural Networks: Proof-of-Concept Study. , 0, , .		5
277	A Fully Automated Method for Segmentation and Thickness Map Estimation of Femoral and Acetabular Cartilages in 3D CT Images of the Hip. Proc Int Symp Image Signal Process Anal, 2007, , .	0.0	4
278	Automated Preoperative Planning of Femoral Component for Total Hip Arthroplasty (THA) from 3D CT Images. Journal of Biomechanical Science and Engineering, 2008, 3, 478-489.	0.1	4
279	Thrombophylaxis with low-dose, short-term fondaparinux after elective hip surgery. Journal of Thrombosis and Thrombolysis, 2016, 41, 413-421.	1.0	4
280	Raman spectroscopy reveals differences in molecular structure between human femoral heads affected by steroid-associated and alcohol-associated osteonecrosis. International Orthopaedics, 2018, 42, 1557-1563.	0.9	4
281	Clinical accuracy and precision of hip resurfacing arthroplasty using computed tomography-based navigation. International Orthopaedics, 2019, 43, 1807-1814.	0.9	4
282	Reproducibility of pelvic sagittal inclination while acquiring radiographs in supine and standing postures. Journal of Orthopaedic Surgery, 2019, 27, 230949901982851.	0.4	4
283	Region-based Convolution Neural Network Approach for Accurate Segmentation of Pelvic Radiograph. , 2019, , .		4
284	Differences in activities of daily living after hip arthroplasty among hip resurfacing, anterolateral THA, and posterolateral THA: a propensity score matched analysis. Journal of Artificial Organs, 2019, 22, 84-90.	0.4	4
285	Minimum 10 years clinical results of an anatomical short stem with a proximal hydroxyapatite coating. Modern Rheumatology, 2021, 31, 1066-1072.	0.9	4
286	Differences in knee joint degeneration between primary hip osteoarthritis and hip osteoarthritis secondary to hip developmental dysplasia: A propensity score-based analysis. Modern Rheumatology, 2021, 31, 1221-1227.	0.9	4
287	A carbon fiber-reinforced polyetheretherketone intramedullary nail improves fracture site visibility on postoperative radiographic images. Injury, 2021, 52, 2225-2232.	0.7	4
288	Gamma-Glutamyl Transferase: A Useful Marker of Habitual Drinking in Cases of Alcohol-Associated Osteonecrosis of the Femoral Head. Alcohol and Alcoholism, 2021, 56, 175-180.	0.9	4

#	ARTICLE	IF	CITATIONS
289	Osteoblastic response to osteoarthritis of the hip does not predict outcome of cementless cup fixation: 79 patients followed for 5-11 years. <i>Acta Orthopaedica</i> , 2001, 72, 343-347.	1.4	3
290	A high-performance computing service over the Internet for nonrigid image registration. <i>International Congress Series</i> , 2003, 1256, 193-199.	0.2	3
291	Metaphyseal Bone Collapse Mimicking Slipped Capital Femoral Epiphysis in Severe Renal Osteodystrophy. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, 3851-3856.	1.8	3
292	Wear degradation of long-term in vivo exposed alumina-on-alumina hip joints: linking nanometer-scale phenomena to macroscopic joint design. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 591-603.	1.7	3
293	Cartilage Regeneration and the Role of Vibrational Spectroscopy in Future Joint Arthroplasty. <i>Key Engineering Materials</i> , 2013, 541, 121-133.	0.4	3
294	Asymptomatic Deep Venous Thrombosis After Elective Hip Surgery Could Be Allowed to Remain in Place Without Thromboprophylaxis After a Minimum 2-Year Follow-Up. <i>Journal of Arthroplasty</i> , 2020, 35, 563-568.	1.5	3
295	Hip subluxation and osteophyte morphology are related to coronal contracture of the hip. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1691-1699.	1.2	3
296	Effect of a modular neck hip prosthesis on anteversion and hip rotation in total hip arthroplasty for developmental dysplasia of the hip. <i>Journal of Artificial Organs</i> , 2020, 23, 255-261.	0.4	3
297	Phase transformation of a new generation yttria-stabilized zirconia femoral head after total hip arthroplasty. <i>Modern Rheumatology</i> , 2008, 18, 647-650.	0.9	3
298	4-dimensional computer-based motion simulation after Total Hip Arthroplasty. <i>Studies in Health Technology and Informatics</i> , 2003, 94, 251-7.	0.2	3
299	Association between magnitude of femoral head collapse and quality of life in patients with osteonecrosis of the femoral head. <i>Modern Rheumatology</i> , 2023, 33, 416-421.	0.9	3
300	Hazard analysis of fracture-reduction robot and its application to safety design of fracture-reduction assisting robotic system. , 2010, , .		2
301	Automated 3D Acetabular Cup planning in Total Hip Arthroplasty Based on Expertise Modeling using Statistical Shape Model. <i>Journal of Japan Society of Computer Aided Surgery</i> , 2012, 14, 27-37.	0.1	2
302	Navigation-aided visualization of lumbosacral nerves for anterior sacroiliac plate fixation: a case report. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2014, 10, 230-236.	1.2	2
303	Registration-Based Patient-Specific Musculoskeletal Modeling Using High Fidelity Cadaveric Template Model. <i>Lecture Notes in Computer Science</i> , 2018, , 703-710.	1.0	2
304	Risk of injury to the femoral blood vessels based on the extent of acetabular dysplasia in total hip arthroplasty. <i>Journal of Artificial Organs</i> , 2019, 22, 324-329.	0.4	2
305	Variations in sagittal and coronal stem tilt and their impact on prosthetic impingement in total hip arthroplasty. <i>Artificial Organs</i> , 2019, 43, 569-576.	1.0	2
306	Femoral head collapse rate among Japanese patients with pre-collapse osteonecrosis of the femoral head. <i>Journal of International Medical Research</i> , 2021, 49, 030006052110233.	0.4	2

#	ARTICLE	IF	CITATIONS
307	CT-based planning of a single-radius femoral component in total knee arthroplasty using the ROBODOC system. <i>Computer Aided Surgery</i> , 2008, 13, 23-29.	1.8	2
308	Real-Time Estimation of Hip Range of Motion for Total Hip Replacement Surgery. <i>Lecture Notes in Computer Science</i> , 2004, , 629-636.	1.0	2
309	Study on a Stiffness Design Method of Femoral Prosthesis Stem Using Fiber Reinforced Composites. <i>Key Engineering Materials</i> , 2007, 334-335, 1257-1260.	0.4	1
310	Ceramic-on-Ceramic Bearings: Simulator Wear Compared to Clinical Retrieval Data. , 2015, , 85-131.		1
311	Does a computed tomography-based navigation system reduce the risk of dislocation after total hip arthroplasty in patients with osteonecrosis of the femoral head? A propensity score analysis. <i>Journal of Artificial Organs</i> , 2020, 23, 247-254.	0.4	1
312	Incidence and determinants of anteflexion impairment after rotational acetabular osteotomy. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1787-1792.	1.2	1
313	A Novel Combined Acetabular and Femoral Computer Navigation System. , 2001, , 129-135.		1
314	Geographical distribution of the associated factors of osteonecrosis of the femoral head, using the designated intractable disease database in Japan. <i>Modern Rheumatology</i> , 2022, 32, 1006-1012.	0.9	1
315	3D CT-based automated preoperative planning system for total hip arthroplasty "AutoImPlan". <i>The Proceedings of Design &amp; Systems Conference</i> , 2004, 2004.14, 302-305.	0.0	1
316	Construction of a Statistical Surgical Plan Atlas for Automated 3D Planning of Femoral Component in Total Hip Arthroplasty. <i>Lecture Notes in Computer Science</i> , 2008, 11, 718-725.	1.0	1
317	Femoral DEXA Studies in Hip Arthroplasty. , 2009, , 131-133.		1
318	Femoral Head Blood Supply Studies. , 2009, , 125-127.		1
319	Novel susceptibility loci for steroid-associated osteonecrosis of the femoral head in systemic lupus erythematosus. <i>Human Molecular Genetics</i> , 2022, 31, 1082-1095.	1.4	1
320	Osteocompatibility of $\text{Si}_3\text{N}_4$ -coated carbon fiber-reinforced polyetheretherketone (CFRP) and hydroxyapatite-coated CFRP with antibiotics and antithrombotic drugs. <i>Journal of Artificial Organs</i> , 2023, 26, 144-150.	0.4	1
321	Segmentation of avascular necrosis of the femoral head from 3D MR images. <i>International Congress Series</i> , 2001, 1230, 359-364.	0.2	0
322	Suctioning Prevents Emboli during Insertion of Acetabular Components without Holes. <i>Clinical Orthopaedics and Related Research</i> , 2007, 457, 150-155.	0.7	0
323	Incidence of embolic events during acetabular prosthesis insertion in total hip arthroplasty, and effect of intramedullary decompression in preventing embolism: higher risk of embolism with one-piece type prosthesis. <i>Journal of Anesthesia</i> , 2007, 21, 459-466.	0.7	0
324	Histological characteristics of the human femoral head in patients with femoral neck fracture. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2012, 461, 705-711.	1.4	0

#	ARTICLE	IF	CITATIONS
325	Numerical modeling of acetabular reconstruction cages made of composite material and estimation of mechanical behavior for bone and cage. Transactions of the JSME (in Japanese), 2015, 81, 15-00050-15-00050.	0.1	0
326	Musculoskeletal. Journal of Japan Society of Computer Aided Surgery, 2016, 18, 159-161.	0.1	0
327	Computer-Assisted Orthopedic Surgery for Hip Osteotomy. , 2018, , 141-155.		0
328	Resurfacing Hip Arthroplasty for Developmental Dysplasia. , 2018, , 29-41.		0
329	A single-use, size-specific, nylon arthroplasty guide: a preliminary study for hip resurfacing. HIP International, 2020, 30, 71-77.	0.9	0
330	Recombinant Human Fibroblast Growth Factor-2 Treatment to Prevent Femoral Head Collapse in Patients With Osteonecrosis of the Femoral Head: Trion, a Single-Arm, Historical Control, Multicenter, Phase II Trial. SSRN Electronic Journal, 0, , .	0.4	0
331	Application of a Robotic-arm Assisted Surgery System for Orthopaedic Surgery. Journal of the Robotics Society of Japan, 2021, 39, 229-231.	0.0	0
332	Cementless Total Hip Arthroplasty Using a Custom-Made Femoral Component with Sand-Blasted Surface. , 2001, , 111-116.		0
333	Virtual Implantation Using the ROBODOC Preoperative Planning Workstation. , 2001, , 157-161.		0
334	Automated quantification of avascular necrosis of the femoral head (ANFH) from 3D MR images. , 2002, , 401-406.		0
335	Medical Robotics and Navigation in Orthopaedic Surgery. Journal of the Robotics Society of Japan, 2004, 22, 426-431.	0.0	0
336	413 A Study on pelvic Finite Element Simulation for Design of Acetabular Cup Considered Muscle Load. The Proceedings of Conference of Kansai Branch, 2008, 2008.83, _4-13_.	0.0	0
337	^  ^ldquo;AutoImPlan^  ^rdquo;: An Automated 3D THA Planning System for Whole Components of Implants with Optimizing Joint Functionalities. Transactions of the Society of Instrument and Control Engineers, 2013, 49, 78-85.	0.1	0
338	Effects of Stem Loosening on Periprosthetic Bone Remodeling After Cementless Hip Replacement. , 1999, , 159-171.		0
339	Computed Tomography-Based Navigation for Total Hip Arthroplasty. , 2018, , 89-103.		0
340	Reconstruction of micro CT-like images from clinical CT images using machine learning: a preliminary study. , 2018, , .		0
341	A Polarized Raman Spectroscopic Method for Advanced Analyses of the Osteon Lamellar Structure of Human Bone. Methods and Protocols, 2022, 5, 41.	0.9	0
342	Numerical analysis evaluation of artificial joints. Journal of Artificial Organs, 0, , .	0.4	0