

Nobuhiko Sugano

List of Publications by Year in descending order

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342
papers

10,084
citations

34016

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h-index

64668

79
g-index

355
all docs

355
docs citations

355
times ranked

5919
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Osteocompatibility of Si_3N_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
3	Geographic distribution of the incidence of osteonecrosis of the femoral head in Japan and its relation to smoking prevalence. <i>Modern Rheumatology</i> , 2022, 32, 186-192.	0.9	5
4	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
5	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
6	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
7	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
8	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
9	A Polarized Raman Spectroscopic Method for Advanced Analyses of the Osteon Lamellar Structure of Human Bone. <i>Methods and Protocols</i> , 2022, 5, 41.	0.9	0
10	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
11	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
12	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
13	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
14	Japanese Orthopaedic Association 2019 Guidelines for osteonecrosis of the femoral head. <i>Journal of Orthopaedic Science</i> , 2021, 26, 46-68.	0.5	34
15	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
16	Application of a Robotic-arm Assisted Surgery System for Orthopaedic Surgery. <i>Journal of the Robotics Society of Japan</i> , 2021, 39, 229-231.	0.0	0
17	Minimum 10 years clinical results of an anatomical short stem with a proximal hydroxyapatite coating. <i>Modern Rheumatology</i> , 2021, 31, 1066-1072.	0.9	4
18	Differences in knee joint degeneration between primary hip osteoarthritis and hip osteoarthritis secondary to hip developmental dysplasia: A propensity score-based analysis. <i>Modern Rheumatology</i> , 2021, 31, 1221-1227.	0.9	4

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19	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
20	Identification of CXCL12-abundant reticular cells in human adult bone marrow. <i>British Journal of Haematology</i> , 2021, 193, 659-668.	1.2	33
21	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. <i>International Orthopaedics</i> , 2021, 45, 1719-1725.	0.9	30
22	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
23	Recombinant human FGF-2 for the treatment of early-stage osteonecrosis of the femoral head: TRION, a single-arm, multicenter, Phase II trial. <i>Regenerative Medicine</i> , 2021, 16, 535-548.	0.8	5
24	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
25	A carbon fiber-reinforced polyetheretherketone intramedullary nail improves fracture site visibility on postoperative radiographic images. <i>Injury</i> , 2021, 52, 2225-2232.	0.7	4
26	Gamma-Glutamyl Transferase: A Useful Marker of Habitual Drinking in Cases of Alcohol-Associated Osteonecrosis of the Femoral Head. <i>Alcohol and Alcoholism</i> , 2021, 56, 175-180.	0.9	4
27	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
28	A single-use, size-specific, nylon arthroplasty guide: a preliminary study for hip resurfacing. <i>HIP International</i> , 2020, 30, 71-77.	0.9	0
29	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
30	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
31	Transitional changes in the incidence of hip osteonecrosis among renal transplant recipients. <i>Journal of Orthopaedic Science</i> , 2020, 25, 466-471.	0.5	5
32	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
33	Automated Muscle Segmentation from Clinical CT Using Bayesian U-Net for Personalized Musculoskeletal Modeling. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1030-1040.	5.4	81
34	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
35	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
36	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

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37	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
38	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
39	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
40	Incidence and determinants of anteflexion impairment after rotational acetabular osteotomy. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1787-1792.	1.2	1
41	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
42	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
43	Clinical accuracy and precision of hip resurfacing arthroplasty using computed tomography-based navigation. <i>International Orthopaedics</i> , 2019, 43, 1807-1814.	0.9	4
44	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
45	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
46	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
47	Reproducibility of pelvic sagittal inclination while acquiring radiographs in supine and standing postures. <i>Journal of Orthopaedic Surgery</i> , 2019, 27, 230949901982851.	0.4	4
48	Region-based Convolution Neural Network Approach for Accurate Segmentation of Pelvic Radiograph. , 2019, , .		4
49	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
50	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
51	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
52	Etiologic Classification Criteria of ARCO on Femoral Head Osteonecrosis Part 1: Glucocorticoid-Associated Osteonecrosis. <i>Journal of Arthroplasty</i> , 2019, 34, 163-168.e1.	1.5	79
53	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
54	Differences in activities of daily living after hip arthroplasty among hip resurfacing, anterolateral THA, and posterolateral THA: a propensity score matched analysis. <i>Journal of Artificial Organs</i> , 2019, 22, 84-90.	0.4	4

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55	Automated segmentation of hip and thigh muscles in metal artifact contaminated CT using CNN. , 2019, , ,		6
56	Transition metals increase hydrothermal stability of yttria-tetragonal zirconia polycrystals (3Y-TZP). Journal of the European Ceramic Society, 2018, 38, 3573-3577.	2.8	13
57	Automated muscle segmentation from CT images of the hip and thigh using a hierarchical multi-atlas method. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 977-986.	1.7	25
58	Factors related to disagreement in implant size between preoperative CT-based planning and the actual implants used intraoperatively for total hip arthroplasty. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 551-562.	1.7	13
59	Computer-Assisted Orthopedic Surgery for Hip Osteotomy. , 2018, , 141-155.		0
60	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
61	Subchondral fracture begins from the bone resorption area in osteonecrosis of the femoral head: a micro-computerised tomography study. International Orthopaedics, 2018, 42, 1479-1484.	0.9	35
62	Quality of life of patients with osteonecrosis of the femoral head: a multicentre study. International Orthopaedics, 2018, 42, 1517-1525.	0.9	18
63	Soft tissue tension is four times lower in the unstable primary total hip arthroplasty. International Orthopaedics, 2018, 42, 2059-2065.	0.9	13
64	Oxide ceramic femoral heads contribute to the oxidation of polyethylene liners in artificial hip joints. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 168-182.	1.5	10
65	Morphological variation of the anterior inferior iliac spine affects hip range of motion in flexion after rotational acetabular osteotomy. International Orthopaedics, 2018, 42, 1247-1252.	0.9	7
66	Can Anatomic Measurements of Stem Anteversion Angle Be Considered as the Functional Anteversion Angle?. Journal of Arthroplasty, 2018, 33, 595-600.	1.5	26
67	Long-term results of Birmingham hip resurfacing arthroplasty in Asian patients. Journal of Artificial Organs, 2018, 21, 117-123.	0.4	11
68	Change in Axial Rotation of the Femur in the Resting Supine Position Following Total Hip Arthroplasty. Artificial Organs, 2018, 42, 290-296.	1.0	11
69	The Posterior Capsular Ligamentous Complex Contributes to Hip Joint Stability in Distraction. Journal of Arthroplasty, 2018, 33, 919-924.	1.5	19
70	Mechanisms induced by transition metal contaminants and their effect on the hydrothermal stability of zirconia-containing bioceramics: an XPS study. Physical Chemistry Chemical Physics, 2018, 20, 28929-28940.	1.3	15
71	Registration-Based Patient-Specific Musculoskeletal Modeling Using High Fidelity Cadaveric Template Model. Lecture Notes in Computer Science, 2018, , 703-710.	1.0	2
72	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. Clinical Orthopaedics and Related Research, 2018, 476, 2169-2173.	0.7	23

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73	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
74	Resurfacing Hip Arthroplasty for Developmental Dysplasia. , 2018, , 29-41.		0
75	Cross-Modality Image Synthesis from Unpaired Data Using CycleGAN. <i>Lecture Notes in Computer Science</i> , 2018, , 31-41.	1.0	108
76	Pelvic and Femoral Coordinates and Implant Alignment Representations in THA. , 2018, , 75-88.		5
77	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
78	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
79	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
80	Computed Tomography-Based Navigation for Total Hip Arthroplasty. , 2018, , 89-103.		0
81	Reconstruction of micro CT-like images from clinical CT images using machine learning: a preliminary study. , 2018, , .		0
82	Chemistry-driven structural alterations in short-term retrieved ceramic-on-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
83	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
84	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
85	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
86	Bioactive silicon nitride: A new therapeutic material for osteoarthropathy. <i>Scientific Reports</i> , 2017, 7, 44848.	1.6	70
87	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
88	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
89	Genome-wide Association Study of Idiopathic Osteonecrosis of the Femoral Head. <i>Scientific Reports</i> , 2017, 7, 15035.	1.6	23
90	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

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91	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
92	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
93	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
94	Characteristics of bone turnover markers in rapidly destructive coxopathy. <i>Journal of Bone and Mineral Metabolism</i> , 2017, 35, 412-418.	1.3	13
95	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
96	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
97	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
98	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
99	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
100	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
101	Musculoskeletal. <i>Journal of Japan Society of Computer Aided Surgery</i> , 2016, 18, 159-161.	0.1	0
102	Hip range of motion (ROM) is less than normal after rotational acetabular osteotomy for developmental dysplasia of the hip: A simulated ROM analysis. <i>Journal of Orthopaedic Research</i> , 2016, 34, 217-223.	1.2	27
103	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
104	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
105	Surface modifications induced by in-vitro wear and oxidation on ^{60}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
106	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
107	Thrombophylaxis with low-dose, short-term fondaparinux after elective hip surgery. <i>Journal of Thrombosis and Thrombolysis</i> , 2016, 41, 413-421.	1.0	4
108	Numerical modeling of acetabular reconstruction cages made of composite material and estimation of mechanical behavior for bone and cage. <i>Transactions of the JSME (in Japanese)</i> , 2015, 81, 15-00050-15-00050.	0.1	0

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109	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. <i>Journal of Epidemiology</i> , 2015, 25, 437-444.	1.1	26
110	Ceramic-on-Ceramic Bearings: Simulator Wear Compared to Clinical Retrieval Data. , 2015, , 85-131.		1
111	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
112	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
113	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
114	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
115	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
116	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
117	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
118	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
119	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
120	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
121	Synovial joint fluid cytokine levels in hip disease. <i>Rheumatology</i> , 2014, 53, 165-172.	0.9	40
122	Is Ultrasound Screening Reliable for Adverse Local Tissue Reaction After Hip Arthroplasty?. <i>Journal of Arthroplasty</i> , 2014, 29, 2239-2244.	1.5	30
123	Iliosacral screw insertion using CT-3D-fluoroscopy matching navigation. <i>Injury</i> , 2014, 45, 988-994.	0.7	57
124	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
125	Jogging After Total Hip Arthroplasty. <i>American Journal of Sports Medicine</i> , 2014, 42, 131-137.	1.9	55
126	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

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127	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
128	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
129	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
130	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
131	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
132	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
133	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
134	Alendronate treatment for hip osteoarthritis: prospective randomized 2-year trial. <i>Clinical Rheumatology</i> , 2013, 32, 1759-1766.	1.0	40
135	Three-dimensional topographical variation of femoral cartilage T2 in healthy volunteer knees. <i>Skeletal Radiology</i> , 2013, 42, 363-370.	1.2	24
136	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
137	Detecting cause of dislocation after total hip arthroplasty by patient-specific four-dimensional motion analysis. <i>Clinical Biomechanics</i> , 2013, 28, 182-186.	0.5	29
138	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
139	In vivo implant fixation of carbon fiber-reinforced PEEK hip prostheses in an ovine model. <i>Journal of Orthopaedic Research</i> , 2013, 31, 485-492.	1.2	46
140	Application of Computed Tomography-Based Navigation for Revision Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2013, 28, 1806-1810.	1.5	25
141	Accuracy of angle and position of the cup using computed tomography-based navigation systems in total hip arthroplasty. <i>Computer Aided Surgery</i> , 2013, 18, 187-194.	1.8	75
142	Cartilage Regeneration and the Role of Vibrational Spectroscopy in Future Joint Arthroplasty. <i>Key Engineering Materials</i> , 2013, 541, 121-133.	0.4	3
143	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
144	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

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145	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
146	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
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