Matthew G Teeter

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116 papers	1,091 citations	18 h-index	25 g-index
122 ext. papers	1,311 ext. citations	3.1 avg, IF	4.64 L-index

#	Paper	IF	Citations
116	Patient and Implant Performance of Satisfied and Dissatisfied Total Knee Arthroplasty Patients.. *Journal of Arthroplasty*, **2022**, 37, S98-S104	4.4	0
115	Migration and Inducible Displacement of the Bicruciate-Stabilized Total Knee Arthroplasty: A Randomized Controlled Trial of Gap Balancing and Measured Resection Techniques. *Journal of Arthroplasty*, **2021**,	4.4	1
114	Machine learning and wearable sensors at preoperative assessments: Functional recovery prediction to set realistic expectations for knee replacements. *Medical Engineering and Physics*, **2021**, 89, 14-21	2.4	4
113	Fully hydroxyapatite-coated collared femoral stems in direct anterior versus direct lateral hip arthroplastyFully hydroxyapatite-coated collared femoral stems in direct anterior versus direct lateral hip arthroplasty. *Canadian Journal of Surgery*, **2021**, 64, E205-E210	2	0
112	Embedded sensing package for temporary bone cement spacers in infected total knee arthroplasty. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 115, 104301	4.1	0
111	Prevalence and Outcomes of Unexpected Positive Intraoperative Cultures in Presumed Aseptic Revision Hip Arthroplasty. *Journal of Bone and Joint Surgery - Series A*, **2021**, 103, 1392-1401	5.6	2
110	Monitoring daily shoulder activity before and after reverse total shoulder arthroplasty using inertial measurement units. *Journal of Shoulder and Elbow Surgery*, **2021**, 30, 1078-1087	4.3	0
109	In□vivo reverse total shoulder arthroplasty contact mechanics. *Journal of Shoulder and Elbow Surgery*, **2021**, 30, 421-429	4.3	1
108	Machine Learning Predicts the Fall Risk of Total Hip Arthroplasty Patients Based on Wearable Sensor Instrumented Performance Tests. *Journal of Arthroplasty*, **2021**, 36, 573-578	4.4	5
107	The Impact of Free Radical Stabilization Techniques on in vivo Mechanical Changes in Highly Cross-Linked Polyethylene Acetabular Liners. *Orthopedic Research and Reviews*, **2021**, 13, 113-122	2.1	0
106	Effect of gap balancing and measured resection techniques on implant migration and contact kinematics of a cementless total knee arthroplasty. *Knee*, **2021**, 31, 86-96	2.6	4
105	Deciphering the low abundance microbiota of presumed aseptic hip and knee implants. *PLoS ONE*, **2021**, 16, e0257471	3.7	0
104	Does surgical approach affect patient outcomes of total knee arthroplasty?. *Canadian Journal of Surgery*, **2021**, 64, E521-E526	2	
103	The Impact of a Gap Balancing or Measured Resection Surgical Technique on Posterior Condylar Offset and Patient-Reported Outcome Measures. *Arthroplasty Today*, **2021**, 11, 64-67	2	0
102	Comparison of long-term kinematics and wear of total knee arthroplasty implant designs. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 124, 104845	4.1	0
101	Evaluation of the Effect of Gait Aids, Such as Canes, Crutches, and Walkers, on the Accuracy of Step Counters in Healthy Individuals. *Orthopedic Research and Reviews*, **2021**, 13, 1-8	2.1	0
100	The effect of femoral stem collar on implant migration and clinical outcomes following direct anterior approach total hip arthroplasty. *Bone and Joint Journal*, **2020**, 102-B, 1654-1661	5.6	4

99	Image-based design and 3D-metal printing of a rat hip implant for use in a clinically representative model of joint replacement. *Journal of Orthopaedic Research*, **2020**, 38, 1627-1636	3.8	3
98	Minimum ten-year follow-up of a randomized trial comparing acetabular component fixation of two porous in-growth surfaces using radiosteriometric analysis. *Bone & Joint Open*, **2020**, 1, 653-662	2.8	1
97	Correlation between hip osteoarthritis and the level of physical activity as measured by wearable technology and patient-reported questionnaires. *Journal of Orthopaedics*, **2020**, 20, 236-239	1.6	6
96	Contact kinematics of patient-specific instrumentation versus conventional instrumentation for total knee arthroplasty. *Knee*, **2020**, 27, 1501-1509	2.6	0
95	. *IEEE Sensors Journal*, **2020**, 20, 14975-14983	4	5
94	The Effects of Resection Technique on Implant Migration in Single Radius Posterior-Stabilized Total Knee Replacement. *Journal of Knee Surgery*, **2020**, 33, 78-83	2.4	
93	Comparison of Contact Kinematics in Posterior-Stabilized and Cruciate-Retaining Total Knee Arthroplasty at Long-Term Follow-Up. *Journal of Arthroplasty*, **2020**, 35, 272-277	4.4	12
92	In vivo volumetric and linear wear measurement of reverse shoulder arthroplasty at minimum 5-year follow-up. *Journal of Shoulder and Elbow Surgery*, **2020**, 29, 1695-1702	4.3	4
91	Catastrophic femoral head trunnion dissociation: a case series with surface wear analysis. *HIP International*, **2019**, 29, NP1-NP5	1.7	6
90	Machine Learning Groups Patients by Early Functional Improvement Likelihood Based on Wearable Sensor Instrumented Preoperative Timed-Up-and-Go Tests. *Journal of Arthroplasty*, **2019**, 34, 2267-2271	4.4	11
89	Validation of In Vivo Linear and Volumetric Wear Measurement for Reverse Total Shoulder Arthroplasty Using Model-Based Radiostereometric Analysis. *Journal of Orthopaedic Research*, **2019**, 37, 1620-1627	3.8	1
88	Effect of Medial Soft Tissue Releases During Posterior-Stabilized Total Knee Arthroplasty on Contact Kinematics and Patient-Reported Outcomes. *Journal of Arthroplasty*, **2019**, 34, 1110-1115	4.4	7
87	The effect of altering head length on corrosion using a material loss method. *HIP International*, **2019**, 29, 368-372	1.7	2
86	Proposal and Validation of a Knee Measurement System for Patients With Osteoarthritis. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 319-326	5	13
85	wear measurement in a modern total knee arthroplasty with model-based radiostereometric analysis. *Bone and Joint Journal*, **2019**, 101-B, 1348-1355	5.6	4
84	Radiostereometric Analysis Permits In Vivo Measurement of Very Small Levels of Wear in TKA. *Clinical Orthopaedics and Related Research*, **2019**, 477, 80-90	2.2	5
83	Repeatability of measuring knee flexion angles with wearable inertial sensors. *Knee*, **2019**, 26, 97-105	2.6	9
82	Femoral head material loss at the head-neck junction in total hip arthroplasty: the effect of head size, stem material and stem offset. *HIP International*, **2019**, 29, 647-651	1.7	3

81	CORR Insights : Polyethylene Wear Increases in Liners Articulating With Scratched Oxidized Zirconium Femoral Heads. *Clinical Orthopaedics and Related Research*, **2018**, 476, 193-195	2.2	
80	Correlation of tibial bone defect shape with patient demographics following total knee revision. *Journal of Orthopaedics*, **2018**, 15, 490-494	1.6	1
79	Mechanical wear and oxidative degradation analysis of retrieved ultra high molecular weight polyethylene acetabular cups. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 79, 314-323	4.1	17
78	Inducible displacement of cemented tibial components ten years after total knee arthroplasty. *Bone and Joint Journal*, **2018**, 100-B, 170-175	5.6	2
77	Validation of radiostereometric analysis in six degrees of freedom for use with reverse total shoulder arthroplasty. *Journal of Biomechanics*, **2018**, 68, 126-131	2.9	4
76	Contact Kinematics Correlates to Tibial Component Migration Following Single Radius Posterior Stabilized Knee Replacement. *Journal of Arthroplasty*, **2018**, 33, 740-745	4.4	7
75	Does the Additional Articulation in Retrieved Bipolar Hemiarthroplasty Implants Decrease Trunnionosis Compared to Total Hip Arthroplasty?. *Journal of Arthroplasty*, **2018**, 33, 268-272	4.4	4
74	Change in Acetabular Cup Orientation From Supine to Standing Position and Its Effect on Wear of Highly Crosslinked Polyethylene. *Journal of Arthroplasty*, **2018**, 33, 263-267	4.4	12
73	Highly crosslinked polyethylene wear rates and acetabular component orientation: a minimum ten-year follow-up. *Bone and Joint Journal*, **2018**, 100-B, 891-897	5.6	10
72	Radiostereometric analysis using clinical radiographic views: Validation with model-based radiostereometric analysis for the knee. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2018**, 232, 759-767	1.7	1
71	Manufacturing, oxidation, mechanical properties and clinical performance of highly cross-linked polyethylene in total hip arthroplasty. *HIP International*, **2018**, 28, 573-583	1.7	10
70	Radiostereometric analysis using clinical radiographic views: Development of a universal calibration object. *Journal of Biomechanics*, **2018**, 73, 238-242	2.9	1
69	Does Posterior Condylar Offset Affect Clinical Results following Total Knee Arthroplasty?. *Journal of Knee Surgery*, **2018**, 31, 754-760	2.4	3
68	Damage Assessment of Retrieved Birmingham Monoblock Cups: Is Conversion to Dual-Mobility Head a Viable Revision Option?. *Journal of Arthroplasty*, **2018**, 33, 1242-1246	4.4	2
67	Varus tibial alignment is associated with greater tibial baseplate migration at 10 years following total knee arthroplasty. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2018**, 26, 1610-1617	5.5	20
66	The impact of residual varus alignment following total knee arthroplasty on patient outcome scores in a constitutional varus population. *Knee*, **2018**, 25, 1278-1282	2.6	3
65	Predictive accuracy of RSA migration thresholds for cemented total hip arthroplasty stem designs. *HIP International*, **2018**, 28, 363-368	1.7	6
64	Surface integrity of polyethylene liners following trunnionosis of a dual modular neck total hip implant. *HIP International*, **2018**, 28, 629-635	1.7	1

63	Additively manufactured implant components for imaging validation studies. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2018**, 232, 690-698	1.7	
62	Wear performance of cobalt chromium, ceramic, and oxidized zirconium on highly crosslinked polyethylene at mid-term follow-up. *Journal of Orthopaedics*, **2018**, 15, 620-623	1.6	2
61	The relationship between constitutional alignment and varus osteoarthritis of the knee. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2017**, 25, 2873-2879	5.5	23
60	Contact Kinematic Differences Between Gap Balanced vs Measured Resection Techniques for Single Radius Posterior-Stabilized Total Knee Arthroplasty. *Journal of Arthroplasty*, **2017**, 32, 1834-1838	4.4	23
59	Outcome following subluxation of mobile articulating spacers in two-stage revision total knee arthroplasty. *Archives of Orthopaedic and Trauma Surgery*, **2017**, 137, 375-380	3.6	7
58	The Impact of Coronal Plane Alignment on Polyethylene Wear and Damage in Total Knee Arthroplasty: A Retrieval Study. *Journal of Arthroplasty*, **2017**, 32, 2012-2016	4.4	18
57	Investigation of imaging magnification in radiostereometric analysis. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2017**, 231, 92-95	1.7	2
56	Marker-based technique for visualizing radiolucent implant components in radiographic imaging. *Journal of Orthopaedic Research*, **2017**, 35, 2017-2022	3.8	5
55	Comparison of articular and backside polyethylene wear in mobile bearing unicompartmental knee replacement. *Knee*, **2017**, 24, 429-433	2.6	7
54	Effect of Acetabular Position on Polyethylene Liner Wear Measured Using Simultaneous Biplanar Acquisition. *Journal of Arthroplasty*, **2017**, 32, 1670-1674	4.4	16
53	Current Total Knee Designs: Does Baseplate Roughness or Locking Mechanism Design Affect Polyethylene Backside Wear?. *Clinical Orthopaedics and Related Research*, **2017**, 475, 2970-2980	2.2	13
52	Differences in Trochlear Surface Damage and Wear Between Three Different Total Knee Arthroplasty Designs. *Journal of Arthroplasty*, **2017**, 32, 3763-3770	4.4	3
51	Effect of Acetabular Component Positioning on Functional Outcomes in Primary Total Hip Arthroplasty. *Journal of Arthroplasty*, **2017**, 32, 843-848	4.4	7
50	Do Changes in Patellofemoral Joint Offset Lead to Adverse Outcomes in Total Knee Arthroplasty With Patellar Resurfacing? A Radiographic Review. *Journal of Arthroplasty*, **2017**, 32, 783-787.e1	4.4	18
49	Thirteen-year wear rate comparison of highly crosslinked and conventional polyethylene in total hip arthroplasty: long-term follow-up of a prospective randomized controlled trial. *Canadian Journal of Surgery*, **2017**, 60, 212-216	2	19
48	Metal-on-Metal Compared With Metal-on-Polyethylene: The Effect on Trunnion Corrosion in Total Hip Arthroplasty. *Journal of Arthroplasty*, **2017**, 32, 2574-2579	4.4	15
47	Comparison of Tibial Insert Polyethylene Damage in Rotating Hinge and Highly Constrained Total Knee Arthroplasty: A Retrieval Analysis. *Journal of Arthroplasty*, **2016**, 31, 290-4	4.4	11
46	In Vivo Wear Performance of Cobalt-Chromium Versus Oxidized Zirconium Femoral Total Knee Replacements. *Journal of Arthroplasty*, **2016**, 31, 137-41	4.4	16

45	Radiostereometric analysis using clinical radiographic views: Validation measuring total hip replacement wear. *Journal of Orthopaedic Research*, **2016**, 34, 1521-8	3.8	11
44	Trunnionosis: Does Head Size Affect Fretting and Corrosion in Total Hip Arthroplasty?. *Journal of Arthroplasty*, **2016**, 31, 2332-6	4.4	48
43	The Effect of Subluxation of Articulating Antibiotic Spacers on Bone Defects and Degree of Constraint in Revision Knee Arthroplasty. *Journal of Arthroplasty*, **2016**, 31, 199-203	4.4	11
42	Factors Affecting Wear of Constrained Polyethylene Tibial Inserts in Total Knee Arthroplasty. *Journal of Arthroplasty*, **2016**, 31, 1340-1345	4.4	8
41	Evaluation of the effect of custom burr holes on a surgeonTs sense of screw fixation in revision porous metal cups. *Journal of Orthopaedics*, **2016**, 13, 443-447	1.6	
40	Backside Wear Is Not Dependent on the Acetabular Socket Design in Crosslinked Polyethylene Liners. *Clinical Orthopaedics and Related Research*, **2016**, 474, 374-82	2.2	3
39	Tribocorrosion in shoulder arthroplasty humeral component retrievals. *Journal of Shoulder and Elbow Surgery*, **2016**, 25, 311-5	4.3	15
38	Migration of a cemented fixed-bearing, polished titanium tibial baseplate (Genesis II) at ten years : a radiostereometric analysis. *Bone and Joint Journal*, **2016**, 98-B, 616-21	5.6	13
37	Accuracy of the modified Hardinge approach in acetabular positioning. *Canadian Journal of Surgery*, **2016**, 59, 247-53	2	5
36	Inter and intra-system size variability of reverse shoulder arthroplasty polyethylene inserts. *International Journal of Shoulder Surgery*, **2016**, 10, 10-4		4
35	Tribocorrosion: Ceramic and Oxidized Zirconium vs Cobalt-Chromium Heads in Total Hip Arthroplasty. *Journal of Arthroplasty*, **2016**, 31, 2064-71	4.4	42
34	Do revision total hip augments provide appropriate modularity?. *Canadian Journal of Surgery*, **2015**, 58, 54-7	2	3
33	Metrology test object for dimensional verification in additive manufacturing of metals for biomedical applications. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2015**, 229, 20-7	1.7	14
32	Contribution of Surface Polishing and Sterilization Method to Backside Wear in Total Knee Arthroplasty. *Journal of Arthroplasty*, **2015**, 30, 2320-2	4.4	5
31	Highly crosslinked polyethylene improves wear but not surface damage in retrieved acetabular liners. *Clinical Orthopaedics and Related Research*, **2015**, 473, 463-8	2.2	22
30	Effect of Taper Design on Trunnionosis in Metal on Polyethylene Total Hip Arthroplasty. *Journal of Arthroplasty*, **2015**, 30, 1269-72	4.4	81
29	The Impact of Wear and Lift-Off on Coronal Plane Alignment in TKA and Implications to Future Constrained Revision: A Retrieval Study. *Journal of Arthroplasty*, **2015**, 30, 2017-20	4.4	7
28	Correlation of corrosion and biomechanics in the retrieval of a single modular neck total hip arthroplasty design: modular neck total hip arthroplasty system. *Journal of Arthroplasty*, **2015**, 30, 135-40	4.4	24

27	Wear and creep behavior of total knee implants undergoing wear testing. *Journal of Arthroplasty*, **2015**, 30, 130-4	4.4	13
26	Taperosis: Does head length affect fretting and corrosion in total hip arthroplasty?. *Bone and Joint Journal*, **2015**, 97-B, 911-6	5.6	51
25	Radiostereometric analysis of early anatomical changes following medial opening wedge high tibial osteotomy. *Knee*, **2015**, 22, 41-6	2.6	6
24	Retrieval analysis of posterior stabilized polyethylene tibial inserts and its clinical relevance. *Journal of Arthroplasty*, **2014**, 29, 365-8	4.4	24
23	Surface extraction can provide a reference for micro-CT analysis of retrieved total knee implants. *Knee*, **2014**, 21, 801-5	2.6	10
22	Nondestructive microimaging during preclinical pin-on-plate testing of novel materials for arthroplasty. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2014**, 228, 159-64	1.7	2
21	Fracture of Two Moderately Cross-Linked Polyethylene Tibial Inserts in a TKR Patient. *Case Reports in Orthopedics*, **2014**, 2014, 491384	0.4	3
20	The 2012 Mark Coventry award: a retrieval analysis of high flexion versus posterior-stabilized tibial inserts. *Clinical Orthopaedics and Related Research*, **2013**, 471, 56-63	2.2	16
19	Quantification of in vivo implant wear in total knee replacement from dynamic single plane radiography. *Physics in Medicine and Biology*, **2013**, 58, 2751-67	3.8	7
18	Manufacturing lot affects polyethylene tibial insert volume, thickness, and surface geometry. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2013**, 227, 884-9	1.7	9
17	Highly cross-linked vs conventional polyethylene: no differences in rim notching from micromotion on retrieved acetabular liners. *Journal of Arthroplasty*, **2012**, 27, 1616-1621.e1	4.4	5
16	Measurement of joint kinematics using a conventional clinical single-perspective flat-panel radiography system. *Medical Physics*, **2012**, 39, 6090-103	4.4	2
15	How do CAD models compare with reverse engineered manufactured components for use in wear analysis?. *Clinical Orthopaedics and Related Research*, **2012**, 470, 1847-54	2.2	15
14	Early failure of a polyethylene acetabular liner cemented into a metal cup. *Journal of Arthroplasty*, **2012**, 27, 820.e5-8	4.4	4
13	Comparison of micro-computed tomography and laser scanning for reverse engineering orthopaedic component geometries. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2012**, 226, 263-7	1.7	9
12	Measurements of surface and subsurface damage in retrieved polyethylene tibial inserts of a contemporary design. *Journal of Long-Term Effects of Medical Implants*, **2012**, 22, 21-31	0.2	7
11	Determination of reference geometry for polyethylene tibial insert wear analysis. *Journal of Arthroplasty*, **2011**, 26, 497-503	4.4	18
10	In vitro quantification of wear in tibial inserts using microcomputed tomography. *Clinical Orthopaedics and Related Research*, **2011**, 469, 107-12	2.2	38

9	Damage of an Oxinium femoral head and polyethylene liner following ŦoutineTtotal hip replacement. *Journal of Bone and Joint Surgery: British Volume*, **2011**, 93, 409-13		28
8	Regional measurements of surface deviation volume in worn polyethylene joint replacement components. *Journal of Long-Term Effects of Medical Implants*, **2010**, 20, 49-56	0.2	4
7	Finite element analysis of wall stress in the equine pulmonary artery. *Equine Veterinary Journal*, **2010**, 42, 68-72	2.4	7
6	Three-dimensional surface deviation maps for analysis of retrieved polyethylene acetabular liners using micro-computed tomography. *Journal of Arthroplasty*, **2010**, 25, 330-2	4.4	29
5	Highly cross-linked polyethylene acetabular liners retrieved four to five years after revision surgery: a report of two cases. *Journal of the Mechanical Behavior of Biomedical Materials*, **2010**, 3, 464-9	4.1	3
4	Technique to quantify subsurface cracks in retrieved polyethylene components using micro-CT. *Journal of Long-Term Effects of Medical Implants*, **2010**, 20, 27-34	0.2	12
3	Evidence that in vivo wear damage alters kinematics and contact stresses in a total knee replacement. *Journal of Long-Term Effects of Medical Implants*, **2010**, 20, 43-8	0.2	6
2	Pulmonary artery calcification in racehorses may be related to transient and repeated increases in arterial pressure during exercise. *Bioscience Hypotheses*, **2009**, 2, 417-421		
1	Evaluation of a laparoscopic technique for collection of serial full-thickness small intestinal biopsy specimens in standing sedated horses. *American Journal of Veterinary Research*, **2008**, 69, 431-9	1.1	23