

# Georg Matziolis

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,220  
citations

471509

17  
h-index

395702

33  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1324  
citing authors

#	ARTICLE	IF	CITATIONS
1	Current Failure Mechanisms After Knee Arthroplasty Have Changed: Polyethylene Wear Is Less Common in Revision Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015, 97, 715-720.	3.0	236
2	Varus malalignment has no influence on clinical outcome in midterm follow-up after total knee replacement. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2010, 130, 1487-1491.	2.4	134
3	Developmental Hip Dysplasia Treated with Total Hip Arthroplasty with a Straight Stem and a Threaded Cup. <i>Journal of Bone and Joint Surgery - Series A</i> , 2004, 86, 312-319.	3.0	95
4	Joint line elevation in revision TKA leads to increased patellofemoral contact forces. <i>Journal of Orthopaedic Research</i> , 2010, 28, 1-5.	2.3	88
5	Massive metallosis after revision of a fractured ceramic head onto a metal head. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2003, 123, 48-50.	2.4	67
6	How much of the PCL is really preserved during the tibial cut?. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 1083-1086.	4.2	48
7	A Pronounced Inflammatory Activity Characterizes the Early Fracture Healing Phase in Immunologically Restricted Patients. <i>International Journal of Molecular Sciences</i> , 2017, 18, 583.	4.1	45
8	Changes of posterior condylar offset results in midflexion instability in single-radius total knee arthroplasty. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2017, 137, 713-717.	2.4	31
9	Increased flexion position of the femoral component reduces the flexion gap in total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 1092-1096.	4.2	29
10	CTLA-4 Mediates Inhibitory Function of Mesenchymal Stem/Stromal Cells. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2312.	4.1	29
11	Effects of Kinesio taping compared to arterio-venous Impulse System <sup>®</sup> on limb swelling and skin temperature after total knee arthroplasty. <i>International Orthopaedics</i> , 2017, 41, 301-307.	1.9	26
12	Collateral ligament length change patterns after joint line elevation may not explain midflexion instability following TKA. <i>Medical Engineering and Physics</i> , 2011, 33, 1303-1308.	1.7	25
13	Intraarticular vancomycin powder is effective in preventing infections following total hip and knee arthroplasty. <i>Scientific Reports</i> , 2020, 10, 13053.	3.3	25
14	The volume of the human knee joint. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2015, 135, 1401-1403.	2.4	21
15	The gap technique does not rotate the femur parallel to the epicondylar axis. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2011, 131, 163-166.	2.4	19
16	Preoperative irradiation for the prevention of heterotopic ossification induces local inflammation in humans. <i>Bone</i> , 2013, 55, 93-101.	2.9	18
17	Local Anesthetics <sup>®</sup> Toxicity toward Human Cultured Chondrocytes: A Comparative Study between Lidocaine, Bupivacaine, and Ropivacaine. <i>Cartilage</i> , 2019, 10, 364-369.	2.7	18
18	C-reactive protein course during the first 5 days after total knee arthroplasty cannot predict early prosthetic joint infection. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2017, 137, 1115-1119.	2.4	15

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19	Normalized gait analysis parameters are closely related to patient-reported outcome measures after total knee arthroplasty. Archives of Orthopaedic and Trauma Surgery, 2018, 138, 711-717.	2.4	15
20	Pre-operative frontal plane malalignment predicts the extension gap asymmetry in knee osteoarthritis. International Orthopaedics, 2012, 36, 79-82.	1.9	14
21	Tranexamic acid is toxic on human chondrocytes, in vitro. Journal of Orthopaedics, 2020, 20, 1-5.	1.3	14
22	Patient Obesity Influences Pelvic Lift During Cup Insertion in Total Hip Arthroplasty Through a Lateral Transgluteal Approach in Supine Position. Journal of Arthroplasty, 2017, 32, 2762-2767.	3.1	12
23	Vancomycin is toxic to human chondrocytes in vitro. Archives of Orthopaedic and Trauma Surgery, 2021, 141, 375-381.	2.4	12
24	The difference between stretching and splitting muscle trauma during THA seems not to play a dominant role in influencing periprosthetic BMD changes. Clinical Biomechanics, 2012, 27, 813-818.	1.2	11
25	The C-reactive protein level after total knee arthroplasty is gender specific. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 3163-3167.	4.2	11
26	Long-term follow-up of bone remodelling after cementless hip arthroplasty using different stems. Scientific Reports, 2020, 10, 10143.	3.3	11
27	The reversed gap technique produces anatomical alignment with less midflexion instability in total knee arthroplasty: a prospective randomized trial. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 2430-2435.	4.2	10
28	Regional differences in temperature course after knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 2686-2691.	4.2	10
29	Good clinical and radiological results of total knee arthroplasty using varus valgus constrained or rotating hinge implants in ligamentous laxity. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 1665-1670.	4.2	10
30	Redistribution of Cerebral Blood Flow during Severe Hypovolemia and Reperfusion in a Sheep Model: Critical Role of $\beta$ -1-Adrenergic Signaling. International Journal of Molecular Sciences, 2017, 18, 1031.	4.1	8
31	Biopolymer surface modification of PLGA fibers enhances interfacial shear strength and supports immobilization of rhGDF-5 in fiber-reinforced brushite cement. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 115, 104285.	3.1	8
32	Meta-analysis of the efficacy of preoperative skin preparation with alcoholic chlorhexidine compared to povidone iodine in orthopedic surgery. Scientific Reports, 2021, 11, 18634.	3.3	8
33	Increase of cortical cerebral blood flow and further cerebral microcirculatory effects of Serelaxin in a sheep model. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H613-H620.	3.2	7
34	The femoral component alignment resulting from spacer block technique is not worse than after intramedullary guided technique in medial unicompartmental knee arthroplasty. Archives of Orthopaedic and Trauma Surgery, 2018, 138, 865-870.	2.4	7
35	Underlying mechanism of subcortical brain protection during hypoxia and reoxygenation in a sheep model - Influence of $\beta$ -1-adrenergic signalling. PLoS ONE, 2018, 13, e0196363.	2.5	7
36	Effect of additional distal femoral resection on flexion deformity in posterior-stabilized total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 2924-2929.	4.2	7

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37	Poor Outcome of Above-Knee Amputation after Septic Failure of Revision Total Knee Arthroplasty. <i>Journal of Knee Surgery</i> , 2022, 35, 645-652.	1.6	6
38	High failure rate of a new pressfit cup in mid-term follow-up. <i>International Orthopaedics</i> , 2015, 39, 1813-1817.	1.9	5
39	Morbidly Obese Patients Undergoing Reduced Cup Anteversion Through a Direct Lateral Approach. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 729-734.	3.0	5
40	Surgically modifiable factors measured by computer-navigation together with patient-specific factors predict knee society score after total knee arthroplasty. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 78.	1.9	5
41	Patient-specific and intra-operatively modifiable factors assessed by computer navigation predict maximal knee flexion one year after TKA. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 3457-3465.	4.2	5
42	Sagittal profile has a significant impact on the explantability of well-fixed cemented stems in revision knee arthroplasty: a biomechanical comparison study of five established knee implant models. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2019, 139, 991-998.	2.4	5
43	Unicondylar Tibiofemoral Arthroplasty – Opinions of the Members of the German Knee Society (DKG) and the German Professional Association of Orthopaedic and Trauma Specialists (BVOU). <i>Zeitschrift Fur Orthopadie Und Unfallchirurgie</i> , 2021, 159, 47-53.	0.7	5
44	Sex Differences in Serum C-Reactive Protein Course after Total Hip Arthroplasty. <i>Clinics in Orthopedic Surgery</i> , 2022, 14, 48.	2.2	5
45	Patient-Specific Contact Stress Does Not Predict Polyethylene Wear Rate in a Specific Pressfit Cup. <i>Journal of Arthroplasty</i> , 2017, 32, 3802-3805.	3.1	4
46	Cemented conical stems can be removed more easily than cylindrical stems, regardless of cone angle in revision knee arthroplasty. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2018, 138, 1747-1754.	2.4	4
47	Influence of the Position of the Fibular Head After Implantation of a Total Knee Prosthesis on Femorotibial Rotation. <i>Orthopedics</i> , 2011, 34, e610-4.	1.1	4
48	An Isoelastic Monoblock Cup Retains More Acetabular and Femoral Bone Than a Modular Press-Fit Cup. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021, 103, 992-999.	3.0	3
49	Does Total Hip Arthroplasty Influence the Development and Localization of Sacral Insufficiency Fractures?. <i>Journal of Bone and Joint Surgery - Series A</i> , 2022, 104, 139-144.	3.0	3
50	A novel method for intraoperative osseomechanical strength measurements: a biomechanical ex vivo evaluation on proximal femora. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2020, 140, 727-734.	2.4	2
51	Reliability analysis of CT torsion assessment after closed cephalomedullary nailing of trochanteric femoral fractures. A comparison study of six established methods. <i>Journal of Orthopaedic Science</i> , 2020, 27, 146-146.	1.1	2
52	Rotation of the femoral component in total knee arthroplasty – a refresher. <i>European Orthopaedics and Traumatology</i> , 2010, 1, 31-35.	0.1	1
53	Evaluation of a vital staining protocol with 2,3,5-triphenyltetrazolium chloride for cancellous bone in a sheep model. <i>Research in Veterinary Science</i> , 2017, 114, 131-135.	1.9	1
54	The fibular head projection is of limited use as a radiographic landmark in preoperative planning of total knee arthroplasty. <i>Skeletal Radiology</i> , 2017, 46, 1379-1384.	2.0	1

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55	A Simple Procedure for the Evaluation of Bone Vitality by Staining with a Tetrazolium Salt. International Journal of Molecular Sciences, 2017, 18, 1646.	4.1	1
56	The bactericidal effect of vancomycin is not altered by tranexamic acid, adrenalin, dexamethasone, or lidocaine in vitro. Scientific Reports, 2021, 11, 10739.	3.3	0
57	Feasibility Analysis of a Novel Method for the Estimation of Local Bone Mechanical Properties: A Preliminary Investigation of Different Pressure Rod Designs on Synthetic Cancellous Bone Models. Archives of Bone and Joint Surgery, 2021, 9, 203-210.	0.2	0
58	Less soft tissue release in total knee arthroplasty for anteromedial compared to posteromedial knee osteoarthritis. Archives of Orthopaedic and Trauma Surgery, 2022, , 1.	2.4	0