

# Bernd Grimm

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

1,836  
citations

218592

26  
h-index

289141

40  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acceleration-based gait test for healthy subjects: Reliability and reference data. <i>Gait and Posture</i> , 2009, 30, 192-196.	0.6	126
2	Accelerometry-based gait analysis, an additional objective approach to screen subjects at risk for falling. <i>Gait and Posture</i> , 2012, 36, 296-300.	0.6	111
3	Assessing Gait in Parkinson's Disease Using Wearable Motion Sensors: A Systematic Review. <i>Diseases (Basel, Switzerland)</i> , 2019, 7, 18.	1.0	109
4	Validity of an inertial measurement unit to assess pelvic orientation angles during gait, sit-to-stand transfers and step-up transfers: Comparison with an optoelectronic motion capture system*. <i>Medical Engineering and Physics</i> , 2016, 38, 225-231.	0.8	107
5	Cross-linked Compared with Historical Polyethylene in THA: An 8-year Clinical Study. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 979-984.	0.7	79
6	Patient-reported outcome measures versus inertial performance-based outcome measures: A prospective study in patients undergoing primary total knee arthroplasty. <i>Knee</i> , 2015, 22, 618-623.	0.8	76
7	Crosslinked polyethylene compared to conventional polyethylene in total hip replacement: Pre-clinical evaluation, in-vitro testing and prospective clinical follow-up study. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006, 77, 719-725.	1.2	65
8	A comparison of four systems for calibration when templating for total hip replacement with digital radiography. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2010, 92-B, 136-141.	3.4	62
9	The determination of linear and angular penetration of the femoral head into the acetabular component as an assessment of wear in total hip replacement. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2008, 90-B, 839-846.	3.4	59
10	The importance to including objective functional outcomes in the clinical follow up of total knee arthroplasty patients. <i>Knee</i> , 2011, 18, 306-311.	0.8	53
11	Evaluating physical function and activity in the elderly patient using wearable motion sensors. <i>EFORT Open Reviews</i> , 2016, 1, 112-120.	1.8	53
12	Inertial sensor motion analysis of gait, sit-to-stand transfers and step-up transfers: differentiating knee patients from healthy controls. <i>Physiological Measurement</i> , 2012, 33, 1947-1958.	1.2	49
13	Physical activity after outpatient surgery and enhanced recovery for total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 3366-3371.	2.3	46
14	Bone Remodeling and Hydroxyapatite Resorption in Coated Primary Hip Prostheses. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 478-484.	0.7	43
15	Objective assessment of physical activity and sedentary behaviour in knee osteoarthritis patients beyond daily steps and total sedentary time. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 64.	0.8	43
16	Continuation rates of the subdermal contraceptive Implanon <sup>®</sup> and associated influencing factors. <i>European Journal of Contraception and Reproductive Health Care</i> , 2014, 19, 15-21.	0.6	39
17	Physical Activity and Bone: May the Force be with You. <i>Frontiers in Endocrinology</i> , 2014, 5, 20.	1.5	36
18	Clinimetric quality of the new 2011 Knee Society Score: High validity, low completion rate. <i>Knee</i> , 2014, 21, 647-654.	0.8	34

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19	Assessment of physical function following total hip arthroplasty: Inertial sensor based gait analysis is supplementary to patient-reported outcome measures. <i>Clinical Biomechanics</i> , 2016, 32, 171-179.	0.5	34
20	Clinical validation of a body-fixed 3D accelerometer and algorithm for activity monitoring in orthopaedic patients. <i>Journal of Orthopaedic Translation</i> , 2017, 11, 19-29.	1.9	32
21	Quantifying Habitual Levels of Physical Activity According to Impact in Older People: Accelerometry Protocol for the VIBE Study. <i>Journal of Aging and Physical Activity</i> , 2016, 24, 290-295.	0.5	30
22	Are patients with knee osteoarthritis and patients with knee joint replacement as physically active as healthy persons?. <i>Journal of Orthopaedic Translation</i> , 2018, 14, 8-15.	1.9	30
23	Early functional outcome after subvastus or parapatellar approach in knee arthroplasty is comparable. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2011, 19, 943-951.	2.3	28
24	Functional improvement after unicompartmental knee replacement: a follow-up study with a performance based knee test. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2007, 15, 1187-1193.	2.3	27
25	Femoral fit in ABG-II hip stems, influence on clinical outcome and bone remodeling: a radiographic study. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2008, 128, 1065-1072.	1.3	27
26	Strong correlation between the morphology of the proximal femur and the geometry of the distal femoral trochlea. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 2900-2910.	2.3	27
27	Patella retention versus replacement in total knee arthroplasty; functional and clinimetric aspects. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2009, 129, 259-265.	1.3	26
28	Preoperative bone quality as a factor in dual-energy X-ray absorptiometry analysis comparing bone remodelling between two implant types. <i>International Orthopaedics</i> , 2008, 32, 39-45.	0.9	25
29	Inertia based functional scoring of the shoulder in clinical practice. <i>Physiological Measurement</i> , 2014, 35, 167-176.	1.2	23
30	Periprosthetic fractures around cementless hydroxyapatite-coated femoral stems. <i>International Orthopaedics</i> , 2005, 29, 235-240.	0.9	21
31	Radiological Prediction of Posttraumatic Kyphosis After Thoracolumbar Fracture. <i>The Open Orthopaedics Journal</i> , 2016, 10, 135-142.	0.1	21
32	Study of thermal conversion and patterning of a new soluble poly (p-phenylenevinylene) (PPV) precursor. <i>Materials Science in Semiconductor Processing</i> , 2007, 10, 77-89.	1.9	20
33	Importance of correcting for individual differences in the clinical diagnosis of gait disorders. <i>Physiotherapy</i> , 2012, 98, 320-324.	0.2	20
34	Frontal Plane Pelvic Motion during Gait Captures Hip Osteoarthritis Related Disability. <i>HIP International</i> , 2015, 25, 413-419.	0.9	20
35	The association of leg length and offset reconstruction after total hip arthroplasty with clinical outcomes. <i>Clinical Biomechanics</i> , 2019, 68, 89-95.	0.5	20
36	Acceleration-Based Motion Analysis as a Tool for Rehabilitation. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2011, 90, 226-232.	0.7	18

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37	Current practice of orthopaedic surgical skills training raises performance of supervised residents in total knee arthroplasty to levels equal to those of orthopaedic surgeons. <i>Perspectives on Medical Education</i> , 2022, 7, 126-132.	1.8	18
38	The influence of age, muscle strength and speed of information processing on recovery responses to external perturbations in gait. <i>Gait and Posture</i> , 2014, 39, 513-517.	0.6	16
39	Assessing function in patients undergoing joint replacement: a study protocol for a cohort study. <i>BMC Musculoskeletal Disorders</i> , 2012, 13, 220.	0.8	15
40	Cementless Hemispheric Hydroxyapatite-Coated Sockets for Acetabular Revision. <i>Journal of Arthroplasty</i> , 2007, 22, 369-376.	1.5	13
41	Objective outcome evaluation using inertial sensors in subacromial impingement syndrome: a five-year follow-up study. <i>Physiological Measurement</i> , 2014, 35, 677-686.	1.2	13
42	Validation of a novel activity monitor in impaired, slow-walking, crutch-supported patients. <i>Annals of Physical and Rehabilitation Medicine</i> , 2016, 59, 308-313.	1.1	13
43	Functional outcome of knee arthroplasty is dependent upon the evaluation method employed. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , 2009, 19, 415-422.	0.6	12
44	The Morphology of the Proximal Femoral Canal Continues to Change in the Very Elderly: Implications for Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2015, 30, 2328-2332.	1.5	12
45	The Femoral Head Center Shifts in a Mediocaudal Direction During Aging. <i>Journal of Arthroplasty</i> , 2017, 32, 581-586.	1.5	7
46	Metal ion concentrations after metal-on-metal hip arthroplasty are not correlated with habitual physical activity levels. <i>HIP International</i> , 2019, 29, 638-646.	0.9	7
47	Second harmonic generation in SiO <sub>2</sub> sol-gel films functionalized with Ethyl-[4-(4-nitro-phenylazo)-phenyl]-(2-oxiranylmethoxy-ethyl)-amine (ENPMA) molecules. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1689-1695.	1.5	6
48	Patients with hip resurfacing arthroplasty are not physically more active than those with a stemmed total hip. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 91, 576-580.	1.2	6
49	Wearable technology in orthopedic trauma surgery – An AO trauma survey and review of current and future applications. <i>Injury</i> , 2022, 53, 1961-1965.	0.7	6
50	Generalizability of deep learning models for predicting outdoor irregular walking surfaces. <i>Journal of Biomechanics</i> , 2022, 139, 111159.	0.9	6
51	Physical functioning of low back pain patients: perceived physical functioning and functional capacity, but not physical activity is affected. <i>Disability and Rehabilitation</i> , 2015, 37, 2257-2263.	0.9	5
52	Finding NEEMO: towards organizing smart digital solutions in orthopaedic trauma surgery. <i>EFORT Open Reviews</i> , 2020, 5, 408-420.	1.8	5
53	Development of a dynamic fall risk profile in elderly nursing home residents: A free field gait analysis based study. <i>Archives of Gerontology and Geriatrics</i> , 2021, 93, 104294.	1.4	5
54	Quality, but not quantity of physical activity is associated with metal ion concentrations in unilateral hip resurfacing. <i>Journal of Orthopaedic Research</i> , 2020, 38, 2206-2212.	1.2	4

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55	Daily activity and functional performance in people with chronic disease: A cross-sectional study. <i>Cogent Medicine</i> , 2020, 7, .	0.7	4
56	Leg power, pelvic movement and physical activity after periacetabular osteotomy. A prospective cohort study. <i>Acta Orthopaedica Belgica</i> , 2018, 84, 163-171.	0.1	4
57	Self-reported systemic complaints in patients with metal-on-metal hip arthroplasty. <i>Journal of Orthopaedics</i> , 2020, 18, 213-217.	0.6	3
58	Correlation of Technetium-99m Scintigraphy, Progressive Acetabular Osteolysis and Acetabular Component Loosening in Total Hip Arthroplasty. <i>HIP International</i> , 2010, 20, 460-465.	0.9	2
59	Early functional outcome after subvastus or parapatellar approach in knee arthroplasty is comparable: a performance-based trial with anatomical findings. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 1885-1886.	2.3	2
60	Discrepancy and contradiction regarding fixation of hip stems with or without cement: survey among 765 hip arthroplasty specialists. <i>HIP International</i> , 2018, 28, 514-521.	0.9	2
61	Long-Term Reduction of Wear and Osteolysis with Cross-Linked PE? 13-Year Follow-up of a Prospectively Randomized Comparison with Conventional PE. , 2012, , 59-70.		2
62	Use of Wearable Technology to Measure Activity in Orthopaedic Trauma Patients: A Systematic Review. <i>Indian Journal of Orthopaedics</i> , 0, , 1.	0.5	2
63	Single cavity filters on end-faces of optical fibers. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
64	Filters and electro-optic modulators on fiber end-faces. , 2011, , .		1
65	International Combined Orthopaedic Research Societies: A model for international collaboration to promote orthopaedic and musculoskeletal research. <i>Journal of Orthopaedic Translation</i> , 2014, 2, 165-169.	1.9	1
66	Adjustments in 2011 KSS increase the clinical suitability. <i>Acta Orthopaedica Belgica</i> , 2016, 82, 43-51.	0.1	1
67	Only limited correlations between patient-reported outcomes and objectively monitored physical activity 10-years after THA. <i>Acta Orthopaedica Belgica</i> , 2021, 87, 593-599.	0.1	0