

# Edward R Valstar

## List of Publications by Year in descending order

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71  
papers

2,773  
citations

172457

29  
h-index

175258

52  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1515  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for standardization of radiostereometry (RSA) of implants. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 76, 563-572.	3.3	457
2	Early migration of tibial components is associated with late revision. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 83, 614-624.	3.3	159
3	Early proximal migration of cups is associated with late revision in THA. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 83, 583-591.	3.3	123
4	RSA and Registries: The Quest for Phased Introduction of New Implants. Journal of Bone and Joint Surgery - Series A, 2011, 93, 62-65.	3.0	122
5	The Effect of Hydroxyapatite on the Micromotion of Total Knee Prostheses. A Prospective, Randomized, Double-Blind Study*. Journal of Bone and Joint Surgery - Series A, 1998, 80, 1665-72.	3.0	110
6	The History and Future of Radiostereometric Analysis. Clinical Orthopaedics and Related Research, 2006, 448, 10-21.	1.5	105
7	Effects of ligament sectioning on the kinematics of the distal tibiofibular syndesmosis: A radiostereometric study of 10 cadaveric specimens based on presumed trauma mechanisms with suggestions for treatment. Monthly Notices of the Royal Astronomical Society: Letters, 2006, 77, 531-540.	3.3	99
8	Fast and accurate automated measurements in digitized stereophotogrammetric radiographs. Journal of Biomechanics, 1998, 31, 491-498.	2.1	95
9	Kinematics of the distal tibiofibular syndesmosis. Acta Orthopaedica, 2003, 74, 337-343.	1.4	93
10	Clinical Validation of Model-based RSA for a Total Knee Prosthesis. Clinical Orthopaedics and Related Research, 2007, 464, 205-209.	1.5	79
11	External rotation stress imaging in syndesmotic injuries of the ankle: Comparison of lateral radiography and radiostereometry in a cadaveric model. Acta Orthopaedica, 2003, 74, 201-205.	1.4	66
12	Marker Configuration Model-Based Roentgen Fluoroscopic Analysis. Journal of Biomechanics, 2005, 38, 893-901.	2.1	66
13	Good Diagnostic Performance of Early Migration as a Predictor of Late Aseptic Loosening of Acetabular Cups. Journal of Bone and Joint Surgery - Series A, 2012, 94, 874-880.	3.0	65
14	Early subsidence of shape-closed hip arthroplasty stems is associated with late revision. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 86, 575-585.	3.3	62
15	The use of Roentgen stereophotogrammetry to study micromotion of orthopaedic implants. ISPRS Journal of Photogrammetry and Remote Sensing, 2002, 56, 376-389.	11.1	61
16	Model-based RSA of a Femoral Hip Stem Using Surface and Geometrical Shape Models. Clinical Orthopaedics and Related Research, 2006, 448, 92-97.	1.5	53
17	Clinical validation of model-based RSA for a total knee prosthesis. Clinical Orthopaedics and Related Research, 2007, 464, 205-9.	1.5	51
18	The Exeter femoral stem continues to migrate during its first decade after implantation. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 83, 129-134.	3.3	50

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19	Kinematics of the distal tibiofibular syndesmosis. <i>Acta Orthopaedica</i> , 2003, 74, 337-343.	1.4	45
20	Velocity effects on the scapulo-humeral rhythm. <i>Clinical Biomechanics</i> , 1998, 13, 593-602.	1.2	44
21	Comparison of micromotion in mobile bearing and posterior stabilized total knee prostheses. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2005, 76, 353-361.	3.3	42
22	The beneficial effect of hydroxyapatite lasts. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 135-141.	3.3	41
23	Transepicondylar axis accuracy in computer assisted knee surgery: A comparison of the CT-based measured axis versus the CAS-determined axis. <i>Computer Aided Surgery</i> , 2008, 13, 200-206.	1.8	34
24	Evaluation of automated statistical shape model based knee kinematics from biplane fluoroscopy. <i>Journal of Biomechanics</i> , 2014, 47, 122-129.	2.1	34
25	Factors associated with excessive migration in bone impaction hip revision surgery. <i>Journal of Arthroplasty</i> , 2002, 17, 826-833.	3.1	31
26	Influence of Cement Viscosity and Cement Mantle Thickness on Migration of the Exeter Total Hip Prosthesis. <i>Journal of Arthroplasty</i> , 2005, 20, 521-528.	3.1	31
27	AQUILA: assessment of quality in lower limb arthroplasty. An expert Delphi consensus for total knee and total hip arthroplasty. <i>BMC Musculoskeletal Disorders</i> , 2011, 12, 173.	1.9	30
28	Fixation of High-Flexion Total Knee Prostheses: Five-Year Follow-up Results of a Four-Arm Randomized Controlled Clinical and Roentgen Stereophotogrammetric Analysis Study. <i>Journal of Bone and Joint Surgery - Series A</i> , 2013, 95, e141.	3.0	30
29	Computer assisted versus conventional cemented total knee prostheses alignment accuracy and micromotion of the tibial component. <i>International Orthopaedics</i> , 2009, 33, 1255-1261.	1.9	29
30	Micromotion of the Souter-Strathclyde total elbow prosthesis in patients with rheumatoid arthritis. <i>Acta Orthopaedica</i> , 2002, 73, 264-272.	1.4	28
31	Kinematics before and after reconstruction of the anterior syndesmosis of the ankle. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2005, 76, 713-720.	3.3	27
32	RSA prediction of high failure rate for the uncoated Interax TKA confirmed by meta-analysis. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 142-147.	3.3	26
33	Equivalent 2-year stabilization of uncemented tibial component migration despite higher early migration compared with cemented fixation: an RSA study on 360 total knee arthroplasties. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 90, 172-178.	3.3	26
34	Evaluation of humeral head replacements using time-action analysis. <i>Journal of Shoulder and Elbow Surgery</i> , 2003, 12, 152-157.	2.6	24
35	Mechanical properties of human bone-implant interface tissue in aseptically loose hip implants. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 38, 59-68.	3.1	23
36	Radiostereometric Analysis in Orthopaedic Surgery. <i>Clinical Orthopaedics and Related Research</i> , 2006, 448, 2.	1.5	21

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37	5-year clinical and radiostereometric analysis (RSA) follow-up of 39 CLT femoral neck total hip prostheses in young osteoarthritis patients. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 334-341.	3.3	20
38	Early Migration of the Tibial Component of the Buechel-Pappas Total Ankle Prosthesis. <i>Clinical Orthopaedics and Related Research</i> , 2006, 448, 146-151.	1.5	19
39	Inhibition of GSK3 $\beta$ Stimulates BMP Signaling and Decreases <i>SOST</i> Expression Which Results in Enhanced Osteoblast Differentiation. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 2938-2946.	2.6	17
40	Migration and clinical outcome of mobile-bearing versus fixed-bearing single-radius total knee arthroplasty. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 89, 190-196.	3.3	16
41	Periapatite May Not Improve Micromotion of Knee Prostheses in Rheumatoid Arthritis. <i>Clinical Orthopaedics and Related Research</i> , 2006, 448, 122-128.	1.5	15
42	Biomechanical Evaluation of the Elbow Using Roentgen Stereophotogrammetric Analysis. <i>Clinical Orthopaedics and Related Research</i> , 2002, 396, 100-105.	1.5	14
43	Assessment of three-dimensional stent-graft dynamics by using fluoroscopic roentgenographic stereophotogrammetric analysis. <i>Journal of Vascular Surgery</i> , 2007, 46, 773-779.	1.1	14
44	Visual Analysis of Multi-Joint Kinematic Data. <i>Computer Graphics Forum</i> , 2010, 29, 1123-1132.	3.0	13
45	The effect of injectable biocompatible elastomer (PDMS) on the strength of the proximal fixation of endovascular aneurysm repair grafts: An in vitro study. <i>Journal of Vascular Surgery</i> , 2010, 52, 152-158.	1.1	13
46	Waterjet cutting of periprosthetic interface tissue in loosened hip prostheses: An in vitro feasibility study. <i>Medical Engineering and Physics</i> , 2015, 37, 245-250.	1.7	13
47	Measuring polyethylene wear in total knee arthroplasty by RSA: Differences between weight-bearing and non-weight-bearing positioning. <i>Journal of Orthopaedic Research</i> , 2014, 32, 613-617.	2.3	12
48	Co-contraction in RA patients with a mobile bearing total knee prosthesis during a step-up task. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2008, 16, 734-740.	4.2	11
49	A Titanium Plasma-Sprayed Cup with and without Hydroxyapatite-Coating: A Randomised Radiostereometric Study of Stability and Osseointegration. <i>HIP International</i> , 2013, 23, 33-39.	1.7	11
50	Radiostereometry and new prostheses. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 103-104.	3.3	10
51	Roentgen Stereophotogrammetric Analysis: An Accurate Tool to Assess Stent-Graft Migration. <i>Journal of Endovascular Therapy</i> , 2006, 13, 468-475.	1.5	9
52	Effect of rotator cuff dysfunction on the initial mechanical stability of cementless glenoid components. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 507-514.	2.8	9
53	Palacos compared to Palamed bone cement in total hip replacement: a randomized controlled trial. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 87, 473-478.	3.3	9
54	Structural and mechanical characterisation of the peri-prosthetic tissue surrounding loosened hip prostheses. An explorative study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 62, 456-467.	3.1	8

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55	Increased muscle activity to stabilise mobile bearing knees in patients with rheumatoid arthritis. <i>Knee</i> , 2005, 12, 177-182.	1.6	7
56	Accurate Detection of Stent-Graft Migration in a Pulsatile Aortic Model Using Roentgen Stereophotogrammetric Analysis. <i>Journal of Endovascular Therapy</i> , 2007, 14, 30-38.	1.5	7
57	Integrated assessment techniques for linking kinematics, kinetics and muscle activation to early migration: A pilot study. <i>Gait and Posture</i> , 2012, 36, 394-398.	1.4	7
58	Towards computer-assisted surgery in shoulder joint replacement. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2002, 56, 326-337.	11.1	6
59	Long-term migration of a cementless stem with different bioactive coatings. Data from a "prime"RSA study: lessons learned. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 91, 660-668.	3.3	6
60	Shaping Patient Specific Surgical Guides for Arthroplasty to Obtain High Docking Robustness. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2013, 135, .	2.9	4
61	A fluoroscopy-based planning and guidance software tool for minimally invasive hip refixation by cement injection. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 281-296.	2.8	4
62	Innate immune response and implant loosening: Interferon gamma is inversely associated with early migration of total knee prostheses. <i>Journal of Orthopaedic Research</i> , 2016, 34, 121-126.	2.3	3
63	Fluoroscopic Roentgen stereophotogrammetric analysis (FRSA) to study three-dimensional stent graft dynamics. <i>Journal of Vascular Surgery</i> , 2009, 50, 407-412.	1.1	2
64	Combined surface and volume processing for fused joint segmentation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2010, 5, 263-273.	2.8	2
65	A level-set-based large sliding contact algorithm for easy analysis of implant positioning. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 89, 1317-1336.	2.8	2
66	Numerical optimization of alignment reproducibility for customizable surgical guides. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1567-1578.	2.8	2
67	Migration behaviour of 2 clinically excellent cementless stems with different design rationales: 5-year follow-up of a randomised RSA-study. <i>HIP International</i> , 2022, 32, 747-758.	1.7	2
68	Letters to the Editor: Relationship Between Motion Velocity and Rhythm. <i>Clinical Orthopaedics and Related Research</i> , 2004, 419, 316.	1.5	1
69	PS8. The Effect of Injectable Biocompatible Elastomer (PDMS) on the Strength of the Proximal Fixation of EVAR-grafts. <i>Journal of Vascular Surgery</i> , 2010, 51, 24S.	1.1	1
70	The sense of biomechanical studies in orthopaedics: A discussion on a recent study published in <i>Injury</i> . <i>Injury</i> , 2015, 46, 2078-2079.	1.7	1
71	Peri-prosthetic tissue cells show osteogenic capacity to differentiate into the osteoblastic lineage. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1732-1742.	2.3	1