

# Christopher P Roche

## 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.

63 papers	1,068 citations	17 h-index	31 g-index
81 ext. papers	1,690 ext. citations	2.2 avg, IF	4.78 L-index

#	Paper	IF	Citations
63	Effects of obesity on clinical and functional outcomes following anatomic and reverse total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2022</b> , 31, 17-25	4.3	1
62	Anatomic versus reverse shoulder arthroplasty: a mid-term follow-up comparison. <i>Shoulder and Elbow</i> , <b>2021</b> , 13, 518-526	1.8	2
61	Regional apparent density correlations within the proximal humerus. <i>JSES International</i> , <b>2021</b> , 5, 525-531	1.2	0
60	Risk factors for complications and revision surgery after anatomic and reverse total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2021</b> , 30, e689-e701	4.3	4
59	The effect of body mass index on internal rotation and function following anatomic and reverse total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2021</b> , 30, 265-272	4.3	6
58	Does reverse total shoulder arthroplasty for proximal humeral fracture portend poorer outcomes than for elective indications?. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2021</b> , 30, 40-50	4.3	5
57	Comparison of complication types and rates associated with anatomic and reverse total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2021</b> , 30, 811-818	4.3	12
56	Deltoid fatigue: a longitudinal assessment of reverse shoulder arthroplasty over time. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2021</b> , 30, 1375-1383	4.3	0
55	Using machine learning to predict clinical outcomes after shoulder arthroplasty with a minimal feature set. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2021</b> , 30, e225-e236	4.3	5
54	Use of machine learning to assess the predictive value of 3 commonly used clinical measures to quantify outcomes after total shoulder arthroplasty. <i>Seminars in Arthroplasty</i> , <b>2021</b> ,	0.4	2
53	Validation of a machine learning-derived clinical metric to quantify outcomes after total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2021</b> , 30, 2211-2224	4.3	1
52	The influence of preoperative external rotation weakness or stiffness on reverse total shoulder arthroplasty. <i>JSES International</i> , <b>2020</b> , 4, 382-387	1.2	2
51	Preoperative external rotation deficit does not predict poor outcomes or lack of improvement after reverse total shoulder arthroplasty. <i>Journal of Orthopaedics</i> , <b>2020</b> , 21, 379-383	1.6	
50	Reverse Total Shoulder Arthroplasty with a Superior Augmented Glenoid Component for Favard Type-E1, E2, and E3 Glenoids. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2020</b> , 102, 1865-1873	5.6	4
49	Clinical and radiographic outcomes with a posteriorly augmented glenoid for Walch B glenoids in anatomic total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2020</b> , 29, e185-e195	4.3	13
48	The effect of short-stem humeral component sizing on humeral bone stress. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2020</b> , 29, 761-767	4.3	8
47	Clinical and radiographic outcomes with a posteriorly augmented glenoid for Walch B2, B3, and C glenoids in reverse total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2020</b> , 29, e196-e204	4.3	15

46	Anatomical and reverse shoulder arthroplasty utilizing a single implant system with a platform stem: A prospective observational study with midterm follow-up. <i>Shoulder and Elbow</i> , <b>2020</b> , 12, 330-337	1.8	1
45	Comparison of survivorship and performance of a platform shoulder system in anatomic and reverse total shoulder arthroplasty. <i>JSES International</i> , <b>2020</b> , 4, 923-928	1.2	2
44	Acromial and Scapular Fractures After Reverse Total Shoulder Arthroplasty with a Medialized Glenoid and Lateralized Humeral Implant: An Analysis of Outcomes and Risk Factors. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2020</b> , 102, 1724-1733	5.6	7
43	Humeral stem lucencies correlate with clinical outcomes in anatomic total shoulder arthroplasty. <i>JSES International</i> , <b>2020</b> , 4, 669-674	1.2	1
42	Acute versus delayed reverse total shoulder arthroplasty for proximal humerus fractures in the elderly: Mid-term outcomes. <i>Seminars in Arthroplasty</i> , <b>2020</b> , 30, 89-95	0.4	3
41	Assessment of intraoperative joint loads and mobility in reverse total shoulder arthroplasty through a humeral trial sensor. <i>Seminars in Arthroplasty</i> , <b>2020</b> , 30, 2-12	0.4	0
40	What Is the Accuracy of Three Different Machine Learning Techniques to Predict Clinical Outcomes After Shoulder Arthroplasty?. <i>Clinical Orthopaedics and Related Research</i> , <b>2020</b> , 478, 2351-2363	2.2	14
39	Optimal glenosphere size cannot be determined by patient height. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2020</b> , 29, 258-265	4.3	4
38	Patient-reported outcomes of reverse total shoulder arthroplasty: a comparative risk factor analysis of improved versus unimproved cases. <i>JSES Open Access</i> , <b>2019</b> , 3, 174-178	3.2	12
37	Impact of scapular notching on reverse total shoulder arthroplasty outcomes 5 year minimum follow-up. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2019</b> , 28, e204-e205	4.3	2
36	Early outcomes of shoulder arthroplasty according to sex. <i>JSES Open Access</i> , <b>2019</b> , 3, 43-47	3.2	10
35	Clinical and radiographic comparison of a hybrid cage glenoid to a cemented polyethylene glenoid in anatomic total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2019</b> , 28, 2308-2316	4.3	14
34	Impact of scapular notching on reverse total shoulder arthroplasty midterm outcomes: 5-year minimum follow-up. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2019</b> , 28, 2301-2307	4.3	27
33	Glenoid component lucencies are associated with poorer patient-reported outcomes following anatomic shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2019</b> , 28, 1956-1963	4.3	12
32	Impact of screw length and screw quantity on reverse total shoulder arthroplasty glenoid fixation for 2 different sizes of glenoid baseplates. <i>JSES Open Access</i> , <b>2019</b> , 3, 296-303	3.2	8
31	The effect of radial mismatch on radiographic glenoid loosening. <i>JSES Open Access</i> , <b>2019</b> , 3, 287-291	3.2	1
30	Preoperative parameters that predict postoperative patient-reported outcome measures and range of motion with anatomic and reverse total shoulder arthroplasty. <i>JSES Open Access</i> , <b>2019</b> , 3, 266-272	3.2	19
29	Results of total shoulder arthroplasty in patients aged 55 years or younger versus those older than 55 years: an analysis of 1135 patients with over 2 years of follow-up. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2019</b> , 28, 861-868	4.3	13

28	Quantifying success after total shoulder arthroplasty: the substantial clinical benefit. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2018</b> , 27, 903-911	4.3	58
27	Biomechanical characteristics of subscapularis-sparing approach for anatomic total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2018</b> , 27, 133-140	4.3	3
26	Are Age and Patient Gender Associated With Different Rates and Magnitudes of Clinical Improvement After Reverse Shoulder Arthroplasty?. <i>Clinical Orthopaedics and Related Research</i> , <b>2018</b> , 476, 1264-1273	2.2	31
25	Instrumented Trial Prosthesis for Intraoperative Measurements of Joint Reaction Forces during Reverse Total Shoulder Arthroplasty. <i>Sensors and Materials</i> , <b>2018</b> , 30, 1989	1.5	3
24	Quantifying success after total shoulder arthroplasty: the minimal clinically important difference. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2018</b> , 27, 298-305	4.3	159
23	Impact of scapular notching on clinical outcomes after reverse total shoulder arthroplasty: an analysis of 476 shoulders. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2017</b> , 26, 1253-1261	4.3	90
22	Rate of Improvement in Clinical Outcomes with Anatomic and Reverse Total Shoulder Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2017</b> , 99, 1801-1811	5.6	74
21	Comparison of reverse total shoulder arthroplasty outcomes with and without subscapularis repair. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2017</b> , 26, 662-668	4.3	88
20	Impact of glenosphere size on clinical outcomes after reverse total shoulder arthroplasty: an analysis of 297 shoulders. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2016</b> , 25, 763-71	4.3	49
19	Exactech Equinox RTSA Platform Shoulder System Design Rationale <b>2016</b> , 375-384		
18	Design Optimization and Prosthesis Classification <b>2016</b> , 61-72		0
17	Reverse Shoulder Arthroplasty Prosthesis Design Classification System. <i>Bulletin of the Hospital for Joint Disease (2013)</i> , <b>2015</b> , 73 Suppl 1, S5-14	1.4	20
16	The Impact of Posterior Wear on Reverse Shoulder Glenoid Fixation. <i>Bulletin of the Hospital for Joint Disease (2013)</i> , <b>2015</b> , 73 Suppl 1, S15-20	1.4	2
15	Glenohumeral Anatomic Study. A Comparison of Male and Female Shoulders with Similar Average Age and BMI. <i>Bulletin of the Hospital for Joint Disease (2013)</i> , <b>2015</b> , 73 Suppl 1, S68-78	1.4	3
14	A Comparison and Correlation of Clinical Outcome Metrics in Anatomic and Reverse Total Shoulder Arthroplasty. <i>Bulletin of the Hospital for Joint Disease (2013)</i> , <b>2015</b> , 73 Suppl 1, S118-23	1.4	12
13	Bone Grafting the Glenoid Versus Use of Augmented Glenoid Baseplates with Reverse Shoulder Arthroplasty. <i>Bulletin of the Hospital for Joint Disease (2013)</i> , <b>2015</b> , 73 Suppl 1, S129-35	1.4	12
12	Reverse shoulder glenoid baseplate fixation: a comparison of flat-back versus curved-back designs and oval versus circular designs with 2 different offset glenospheres. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2014</b> , 23, 1388-94	4.3	23
11	The impact of scapular notching on reverse shoulder glenoid fixation. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2013</b> , 22, 963-70	4.3	60

10	Initial glenoid fixation using two different reverse shoulder designs with an equivalent center of rotation in a low-density and high-density bone substitute. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2013</b> , 22, 1573-9	4.3	25
9	Achieving fixation in glenoids with superior wear using reverse shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2013</b> , 22, 1695-701	4.3	22
8	Effect of prosthesis design on muscle length and moment arms in reverse total shoulder arthroplasty. <i>Bulletin of the Hospital for Joint Disease (2013)</i> , <b>2013</b> , 71 Suppl 2, S31-5	1.4	19
7	Comparison of bone removed with reverse total shoulder arthroplasty. <i>Bulletin of the Hospital for Joint Disease (2013)</i> , <b>2013</b> , 71 Suppl 2, S36-40	1.4	2
6	Comparison of outcomes using anatomic and reverse total shoulder arthroplasty. <i>Bulletin of the Hospital for Joint Disease (2013)</i> , <b>2013</b> , 71 Suppl 2, 101-7	1.4	19
5	Scapular notching in reverse shoulder arthroplasty: validation of a computer impingement model. <i>Bulletin of the Hospital for Joint Disease (2013)</i> , <b>2013</b> , 71, 278-83	1.4	8
4	Impact of inferior glenoid tilt, humeral retroversion, bone grafting, and design parameters on muscle length and deltoid wrapping in reverse shoulder arthroplasty. <i>Bulletin of the Hospital for Joint Disease (2013)</i> , <b>2013</b> , 71, 284-93	1.4	26
3	Three-Dimensional Magnetic Resonance Imaging Modeling of Normal and Surgically Treated Clubfeet. <i>Biomedical Engineering Series</i> , <b>2007</b> , 79-92		
2	Tarsal shape, size, and articulating surface morphology in adolescent surgically treated clubfoot and their contralateral normal foot. <i>Journal of Pediatric Orthopaedics</i> , <b>2006</b> , 26, 329-35	2.4	14
1	Three-dimensional hindfoot motion in adolescents with surgically treated unilateral clubfoot. <i>Journal of Pediatric Orthopaedics</i> , <b>2005</b> , 25, 630-4	2.4	11