

# Sudesh Sivarasu

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

162  
citations

1478505

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h-index

1372567

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g-index

63  
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63  
docs citations

63  
times ranked

158  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of recurring scapular fracture patterns using 3-dimensional computerized fracture mapping. <i>Journal of Shoulder and Elbow Surgery</i> , 2022, 31, 571-579.	2.6	4
2	Development of a framework to assess the biomechanical impact of reverse shoulder arthroplasty placement modifications. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2156-2168.	2.3	5
3	Design and Development of Novel Anatomical Scapular Fracture Fixation Plates: Population-Based and Fracture-Focused Design. , 2022, , .		0
4	Quantitative fit analysis of acromion fracture plating systems using three-dimensional reconstructed scapula fractures – A multi-observer study. <i>Sicot-j</i> , 2021, 7, 36.	1.8	4
5	A Randomized Controlled Trial of Eccentric Versus Concentric Cycling for Anterior Cruciate Ligament Reconstruction Rehabilitation. <i>American Journal of Sports Medicine</i> , 2021, 49, 626-636.	4.2	8
6	The Self Actuated Tenim Hand: The Conversion of a Body-Driven Prosthesis to an Electromechanically Actuated Device. , 2021, , .		0
7	An interpopulation comparison of 3-dimensional morphometric measurements of the proximal humerus. <i>JSES International</i> , 2020, 4, 453-463.	1.6	2
8	Evaluating the Fit of Current Anatomical Scapula Reconstruction Plates: A Study Using Fifty Scapulae. , 2020, , .		2
9	Introducing a Cost-Effective Radiopaque Scale Design for Intra-Operative Use. , 2020, , .		0
10	Influence of Different Connecting Rod Configurations on the Stability of the Ilizarov/TSF Frame: A Biomechanical Study. <i>Strategies in Trauma and Limb Reconstruction</i> , 2020, 15, 23-27.	0.8	6
11	Diagnostics as the Key to Advances in Global Health: Proposed Methods for Making Reliable Diagnostics Widely Available. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2020, 14, 014702.	0.7	1
12	Effect of humeral tray placement on impingement-free range of motion and muscle moment arms in reverse shoulder arthroplasty. <i>Clinical Biomechanics</i> , 2019, 62, 136-143.	1.2	25
13	Design of a Novel Dosage Counter for a Low-Cost Sleeve Attachment for Enhanced Usability of Any Standard Pressurised Metered Dosage Inhaler. , 2019, , .		0
14	Porcine Block Testing in Verification of a Reloadable Adrenaline Auto-Injector for Intramuscular Injections. , 2019, , .		0
15	A Surface Curvature Technique for Analysing Scapular Dyskinesis. , 2019, , .		0
16	Presurgical Planning for L Dorsi Position Optimization: Combined Simulation and Cadaver Study. , 2019, , .		0
17	Design and Development of an Adaptive Bone Fracture Fixation System. , 2019, , .		0
18	Anatomic variations in glenohumeral joint: an interpopulation study. <i>JSES Open Access</i> , 2018, 2, 1-7.	0.9	7

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19	Open source modular ptosis crutch for the treatment of myasthenia gravis. Expert Review of Medical Devices, 2018, 15, 137-143.	2.8	4
20	In Vitro Functional Verification of a Novel Laxity Measurement Stress Radiography Device. , 2018, , .		1
21	An Attempt to Improve Stance Mechanics of Trans-Tibial Amputee Gait by the Design of a Modular Ankle Joint Prosthetic. , 2018, , .		0
22	INVESTIGATING THE INTRA-ANCESTRAL MORPHOMETRIC VARIATIONS OF THE THREE-DIMENSIONAL GEOMETRY OF THE PROXIMAL HUMERUS. Journal of Musculoskeletal Research, 2018, 21, 1850012.	0.2	1
23	Design and Verification of a Reloadable Adrenaline Auto-Injector for Intramuscular Injections. , 2018, , .		1
24	Finite element model-based evaluation of tissue stress variations to fabricate corrective orthosis in feet with neutral subtalar joint. Prosthetics and Orthotics International, 2017, 41, 157-163.	1.0	4
25	Assessment of 3D morphological characteristics of the shoulder bones using statistical shape modeling: Prospective application to handedness. , 2017, 2017, 1629-1632.		1
26	Kinematic and kinetic gait deviations in males long after anterior cruciate ligament reconstruction. Clinical Biomechanics, 2017, 49, 78-84.	1.2	12
27	Subject-specific shoulder muscle attachment region prediction using statistical shape models: A validity study. , 2017, 2017, 1640-1643.		3
28	The Paediatric Metered Dosage Inhaler (pMDI) Sleeve Attachment. , 2017, , .		1
29	A modular and adjustable ptosis crutch as a non-surgical, low cost solution for elevating the upper eyelid in Myasthenia Gravis. Ergonomics SA, 2017, 28, 49.	0.1	2
30	Novel Device to Accurately Locate Femoral Insertion Landmark in Medial Patellofemoral Ligament (MPFL) Reconstruction. , 2017, , .		0
31	An Open Source Biometric Patient Identification System for Low Resource Setting. , 2017, , .		0
32	Wireless System for Hand Motor Therapy Toward Telerehabilitation in Stroke1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	0
33	Low-Cost Three-Dimensional Printed Surgical Drill-Guiding Device for MPFL Reconstruction (Pat-Rig)1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	2
34	Three-Dimensional Printed Patient Specific Ptosis Crutches as a Nonsurgical Solution for Elevating Upper Eyelids in Myasthenia Gravis Patients1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	5
35	Femoral neck anteversion measurement using linear slot scanning radiography. Medical Engineering and Physics, 2016, 38, 187-191.	1.7	4
36	Design of mechanical interface to re-distribute excess pressure to prevent the formation of decubitus ulcers in bed ridden patients. , 2015, 2015, 1021-4.		4

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37	Patellofixator Rig - Design Specifications of a Device Assisting Medial Patello Femoral Ligament [MPFL] Reconstruction. IFMBE Proceedings, 2015, , 96-99.	0.3	1
38	Palmar Pressure Thresholds in Grasp and Pinch Functions - Analysis on Patients with Peripheral Nerve Damage. IFMBE Proceedings, 2015, , 107-109.	0.3	1
39	Design of an Ureteropyeloscope1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	0
40	Interlandmark Measurements From Lodox Statscan Images1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	1
41	Customized Insole Fabrication for Foot Deformities in Leprosy Patients1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	3
42	Design Evaluation of an Automated Bed for Early Detection and Prevention of Decubitus Ulcers in Nonambulatory Patients1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	4
43	Novel Device for Measuring Knee Laxity at Various Flexion Angles”Laxmeter1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	0
44	Track O. Biomedizinische Technik, 2014, 59, s1028-52.	0.8	1
45	Finite Element Method Oriented Failure Analysis of Medical Implants: Artificial Knee. , 2013, , .		0
46	Tactile sensing fabrics for detecting impairments in leprosy patients. , 2012, , .		0
47	Conceptual design of a paraplegic walker. , 2012, , .		0
48	Novel Approach for Designing a Low Weight Hip Implant Used in Total Hip Arthroplasty Adopting Skeletal Design Techniques. Artificial Organs, 2011, 35, 663-666.	1.9	12
49	LIGHT WEIGHT FEMORAL STEM OPTIMIZATION BASED ON DESIGN AND MATERIALS. Biomedical Engineering - Applications, Basis and Communications, 2011, 23, 37-43.	0.6	1
50	Below Elbow Upper Limb Prosthetic for Amputees and Paralyzed Patients. International Journal of Computer Applications, 2011, 16, 35-39.	0.2	3
51	COMPARATIVE KINEMATIC ANALYSIS OF THE RANGE OF MOVEMENT OF A NORMAL HUMAN KNEE JOINT, STANDARD ARTIFICIAL KNEE AND NOVEL ARTIFICIAL HIGH FLEXION KNEE. Biomedical Engineering - Applications, Basis and Communications, 2010, 22, 41-45.	0.6	0
52	KNEE KINEMATICS SIMULATION AND COMPARATIVE FLEXION ANGLE ANALYSIS OF RECONSTRUCTED KNEE VERSUS STANDARD ARTIFICIAL KNEE VERSUS HIGH FLEXION ARTIFICIAL KNEE. International Journal of Modeling, Simulation, and Scientific Computing, 2010, 01, 477-483.	1.4	1
53	Techno-economical analysis of the potential rise of demand for the artificial high flexion knee in the Indian orthopaedics market. Journal of Medical Marketing, 2010, 10, 115-121.	0.2	1
54	KINEMATIC ANALYSIS AND 3D FINITE ELEMENT ANALYSIS OF A MOBILE-BEARING ARTIFICIAL HIGH FLEXION KNEE. Biomedical Engineering - Applications, Basis and Communications, 2009, 21, 279-285.	0.6	2

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55	STRUCTURAL RESPONSES OF A NOVEL HIGH FLEXION KNEE (SS316&Ugrave;UHMWPE) USED IN TOTAL KNEE ARTHROPLASTY USING FINITE ELEMENT ANALYSIS. Biophysical Reviews and Letters, 2009, 04, 289-298.	0.8	5
56	Artificial Knee Implant Design Parameters Affecting the Range of Motion Improvement After Total Knee Arthroplasty. Journal of Long-Term Effects of Medical Implants, 2009, 19, 13-18.	0.7	1
57	Biomechanical Evaluation of Degree of Freedom of Movements of a Novel High-Flexion Knee for Its Suitability in Eastern Lifestyles. Journal of Long-Term Effects of Medical Implants, 2009, 19, 265-270.	0.7	1
58	Techniques in the development of a lower weight medical implants and strength validation using finite element methods. Journal of Long-Term Effects of Medical Implants, 2009, 19, 49-54.	0.7	0
59	Finite-Element-Based Design Optimisation of a Novel High Flexion Knee Used in Total Knee Arthroplasty. Applied Bionics and Biomechanics, 2008, 5, 77-87.	1.1	5
60	Finite-element-based design optimisation of a novel high flexion knee used in total knee arthroplasty. Applied Bionics and Biomechanics, 2008, 5, 77-87.	1.1	7
61	3D CAD Conceptual Design of an Artificial Knee. Journal of Long-Term Effects of Medical Implants, 2007, 17, 313-320.	0.7	3