Sudesh Sivarasu

List of Publications by Year
in descending order

Version: 2024-02-01

61 papers	162 citations	1478505 6 h-index	1372567 10 g-index
63 all docs	63 docs citations	63 times ranked	158 citing authors

#	Article	IF	Citations
1	Effect of humeral tray placement on impingement-free range of motion and muscle moment arms in reverse shoulder arthroplasty. Clinical Biomechanics, 2019, 62, 136-143.	1.2	25
2	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
3	Kinematic and kinetic gait deviations in males long after anterior cruciate ligament reconstruction. Clinical Biomechanics, 2017, 49, 78-84.	1.2	12
4	A Randomized Controlled Trial of Eccentric Versus Concentric Cycling for Anterior Cruciate Ligament Reconstruction Rehabilitation. American Journal of Sports Medicine, 2021, 49, 626-636.	4.2	8
5	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
6	Anatomic variations in glenohumeral joint: an interpopulation study. JSES Open Access, 2018, 2, 1-7.	0.9	7
7	Influence of Different Connecting Rod Configurations on the Stability of the Ilizarov/TSF Frame: A Biomechanical Study. Strategies in Trauma and Limb Reconstruction, 2020, 15, 23-27.	0.8	6
8	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
9	STRUCTURAL RESPONSES OF A NOVEL HIGH FLEXION KNEE (SS316â€“UHMWPE) USED IN TOTAL KNEE ARTHROPLASTY USING FINITE ELEMENT ANALYSIS. Biophysical Reviews and Letters, 2009, 04, 289-298.	0.8	5
10	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
11	Development of a framework to assess the biomechanical impact of reverse shoulder arthroplasty placement modifications. Journal of Orthopaedic Research, 2022, 40, 2156-2168.	2.3	5
12	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
13	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
14	Femoral neck anteversion measurement using linear slot scanning radiography. Medical Engineering and Physics, 2016, 38, 187-191.	1.7	4
15	Finite element modelâ€“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
16	Open source modular ptosis crutch for the treatment of myasthenia gravis. Expert Review of Medical Devices, 2018, 15, 137-143.	2.8	4
17	Quantitative fit analysis of acromion fracture plating systems using three-dimensional reconstructed scapula fractures â€“ A multi-observer study. Sicot-j, 2021, 7, 36.	1.8	4
18	Identification of recurring scapular fracture patterns using 3-dimensional computerized fracture mapping. Journal of Shoulder and Elbow Surgery, 2022, 31, 571-579.	2.6	4

#	Article	IF	Citations
19	Customized Insole Fabrication for Foot Deformities in Leprosy Patients1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	3
20	Subject-specific shoulder muscle attachment region prediction using statistical shape models: A validity study. , 2017, 2017, 1640-1643.		3
21	3D CAD Conceptual Design of an Artificial Knee. Journal of Long-Term Effects of Medical Implants, 2007, 17, 313-320.	0.7	3
22	Below Elbow Upper Limb Prosthetic for Amputees and Paralyzed Patients. International Journal of Computer Applications, 2011, 16, 35-39.	0.2	3
23	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
24	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
25	An interpopulation comparison of 3-dimensional morphometric measurements of the proximal humerus. JSES International, 2020, 4, 453-463.	1.6	2
26	Evaluating the Fit of Current Anatomical Scapula Reconstruction Plates: A Study Using Fifty Scapulae. , 2020, , .		2
27	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
28	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
29	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
30	LIGHT WEIGHT FEMORAL STEM OPTIMIZATION BASED ON DESIGN AND MATERIALS. Biomedical Engineering - Applications, Basis and Communications, 2011, 23, 37-43.	0.6	1
31	Interlandmark Measurements From Lodox Statscan Images1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	1
32	Track O. Biomedizinische Technik, 2014, 59, s1028-52.	0.8	1
33	Assessment of 3D morphological characteristics of the shoulder bones using statistical shape modeling: Prospective application to handedness. , 2017, 2017, 1629-1632.		1
34	The Paediatric Metered Dosage Inhaler (pMDI) Sleeve Attachment. , 2017, , .		1
35	In Vitro Functional Verification of a Novel Laxity Measurement Stress Radiography Device. , 2018, , .		1
36	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

#	Article	IF	Citations
37	Patellofixator Rig - Design Specifications of a Device Assisting Medial Patello Femoral Ligament [MPFL] Reconstruction. IFMBE Proceedings, 2015, , 96-99.	0.3	1
38	Design and Verification of a Reloadable Adrenaline Auto-Injector for Intramuscular Injections. , 2018, , .		1
39	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
40	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
41	Palmar Pressure Thresholds in Grasp and Pinch Functions - Analysis on Patients with Peripheral Nerve Damage. IFMBE Proceedings, 2015, , 107-109.	0.3	1
42	Diagnostics as the Key to Advances in Global Health: Proposed Methods for Making Reliable Diagnostics Widely Available. Journal of Medical Devices, Transactions of the ASME, 2020, 14, 014702.	0.7	1
43	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
44	Tactile sensing fabrics for detecting impairments in leprosy patients. , 2012, , .		0
45	Conceptual design of a paraplegic walker. , 2012, , .		0
46	Finite Element Method Oriented Failure Analysis of Medical Implants: Artificial Knee. , 2013, , .		0
47	Design of an Ureteropyeloscope1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	0
48	Novel Device for Measuring Knee Laxity at Various Flexion Anglesâ€"Laxmeter1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	0
49	Wireless System for Hand Motor Therapy Toward Telerehabilitation in Stroke1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.7	0
50	An Attempt to Improve Stance Mechanics of Trans-Tibial Amputee Gait by the Design of a Modular Ankle Joint Prosthetic. , 2018, , .		0
51	Novel Device to Accurately Locate Femoral Insertion Landmark in Medial Patellofemoral Ligament (MPFL) Reconstruction. , 2017, , .		0
52	An Open Source Biometric Patient Identification System for Low Resource Setting. , 2017, , .		0
53	Design of a Novel Dosage Counter for a Low-Cost Sleeve Attachment for Enhanced Usability of Any Standard Pressurised Metered Dosage Inhaler. , 2019, , .		0
54	Porcine Block Testing in Verification of a Reloadable Adrenaline Auto-Injector for Intramuscular Injections. , 2019, , .		0

#	Article	IF	Citations
55	A Surface Curvature Technique for Analysing Scapular Dyskinesis. , 2019, , .		0
56	Presurgical Planning for L Dorsi Position Optimization: Combined Simulation and Cadaver Study. , 2019, , .		0
57	Design and Development of an Adaptive Bone Fracture Fixation System. , 2019, , .		0
58	Introducing a Cost-Effective Radiopaque Scale Design for Intra-Operative Use. , 2020, , .		0
59	The Self Actuated Tenim Hand: The Conversion of a Body-Driven Prosthesis to an Electromechanically Actuated Device. , 2021, , .		0
60	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
61	Design and Development of Novel Anatomical Scapular Fracture Fixation Plates: Population-Based and Fracture-Focused Design. , 2022, , .		0