

# Noor Azuan Abu Osman

## List of Publications by Year in descending order

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257  
papers

6,597  
citations

71004

43  
h-index

100535

70  
g-index

274  
all docs

274  
docs citations

274  
times ranked

9380  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of high-performance volleyball players from anthropometric variables and psychological readiness: A machine-learning approach. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2023, 237, 317-324.	0.4	2
2	Generating an Adaptive and Robust Walking Pattern for a Prosthetic Ankle-Foot by Utilizing a Nonlinear Autoregressive Network With Exogenous Inputs. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6297-6305.	7.2	5
3	Optimization and Comparison of Typical Elastic Actuators in Powered Ankle-foot Prosthesis. International Journal of Control, Automation and Systems, 2022, 20, 232-242.	1.6	6
4	The sequential mediation model of students' willingness to continue online learning during the COVID-19 pandemic. Research and Practice in Technology Enhanced Learning, 2022, 17, 13.	1.9	16
5	Biomechanical Ambulatory Assessment of 3D Knee Angle Using Novel Inertial Sensor-Based Technique. IEEE Access, 2021, 9, 36559-36570.	2.6	5
6	Armalcolite Nanocomposite: A New Paradigm for Flexible Capacitive Humidity Sensor. IEEE Sensors Journal, 2021, 21, 14685-14692.	2.4	13
7	Investigation of EMG parameter for transtibial prosthetic user with flexion and extension of the knee and normal walking gait: A preliminary study. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 419-427.	1.0	6
8	Comparison of Conventional and Virtual Reality Box and Blocks Tests in Upper Limb Amputees: A Case-Control Study. IEEE Access, 2021, 9, 76983-76990.	2.6	9
9	Video Game-Based Rehabilitation Approach for Individuals Who Have Undergone Upper Limb Amputation: Case-Control Study. JMIR Serious Games, 2021, 9, e17017.	1.7	16
10	The classification of skateboarding tricks via transfer learning pipelines. PeerJ Computer Science, 2021, 7, e680.	2.7	12
11	Biomechanical Analysis of an Improvement of Prosthetic Liner using Polyurethane Focusing at the Anterior-Distal Part of Residual Limb: A Case Study. Sains Malaysiana, 2021, 50, 2713-2725.	0.3	1
12	Classification and Comparison of Mechanical Design of Powered Ankle-Foot Prostheses for Transtibial Amputees Developed in the 21st Century: A Systematic Review. Journal of Medical Devices, Transactions of the ASME, 2021, 15, .	0.4	8
13	Effect of Lower Limb Muscle Fatigue on Fall Risk for Transfemoral Amputee: A Pilot Study. Occupational Therapy International, 2021, 2021, 1-6.	0.3	2
14	Surveillance of Injury Types, Locations, and Intensities in Male and Female Tennis Players: A Content Analysis of Online Newspaper Reports. International Journal of Environmental Research and Public Health, 2021, 18, 12686.	1.2	6
15	Adsorbents for removal of cationic dye: nanocellulose reinforced biopolymer composites. Journal of Polymer Research, 2020, 27, 1.	1.2	20
16	A case study on interface pressure pattern of two garment orthoses on a child with cerebral palsy. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 884-894.	1.0	1
17	Towards Universal Control System for Powered Ankle-Foot Prosthesis: A Simulation Study. International Journal of Fuzzy Systems, 2020, 22, 1299-1313.	2.3	8
18	Orthoses versus gait retraining: Immediate response in improving physical performance measures in healthy and medial knee osteoarthritic adults. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 749-757.	1.0	1

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19	Contribution of the arm segment rotations towards the horizontal ball and racket head velocities during forehand long shot and drop shot services in table tennis. <i>Sports Biomechanics</i> , 2020, , 1-17.	0.8	3
20	Oxygen-Releasing Scaffolds for Accelerated Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2985-2994.	2.6	38
21	Preparation and characterization study on maleic acid cross-linked poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock_10 Tf 50,662 Td	1.3	7
22	Adsorption of Dyes Using Poly(vinyl alcohol) (PVA) and PVA-Based Polymer Composite Adsorbents: A Review. <i>Journal of Polymers and the Environment</i> , 2020, 28, 775-793.	2.4	101
23	POSTURAL STABILITY STRATEGIES IN TRANSTIBIAL AMPUTEES DURING QUIET STANDING IN ALTERED SENSORY CONDITIONS WEARING THREE TYPES OF PROSTHETIC FEET. <i>Journal of Mechanics in Medicine and Biology</i> , 2020, 20, 1950071.	0.3	1
24	Analysis of the interface pressure exerted by the Châneau brace in patients with double-curve adolescent idiopathic scoliosis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 901-908.	1.0	3
25	Comparative study of the circumferential and volumetric analysis between conventional casting and three-dimensional scanning methods for transtibial socket: A preliminary study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 181-192.	1.0	10
26	Gait Classification Using Mahalanobisâ€“Taguchi System for Health Monitoring Systems Following Anterior Cruciate Ligament Reconstruction. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3306.	1.3	10
27	Gait Analysis and Mathematical Index-Based Health Management Following Anterior Cruciate Ligament Reconstruction. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4680.	1.3	1
28	Combined effects of knee brace, laterally wedged insoles, and toe-out gait on knee adduction moment and fall risk in moderate medial knee osteoarthritis patients. <i>Prosthetics and Orthotics International</i> , 2019, 43, 148-157.	0.5	14
29	Parametric process optimization to improve the accuracy and mechanical properties of 3D printed parts. <i>MRS Advances</i> , 2019, 4, 1383-1392.	0.5	1
30	Optimisation and biological activities of bioceramic robocast scaffolds provided with an oxygen-releasing coating for bone tissue engineering applications. <i>Ceramics International</i> , 2019, 45, 805-816.	2.3	37
31	Moisture sensitive inimitable Armalcolite/PDMS flexible sensor: A new entry. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 211-220.	4.0	19
32	Effects of different foot progression angles and platform settings on postural stability and fall risk in healthy and medial knee osteoarthritic adults. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 163-171.	1.0	2
33	Combined effects of knee brace, laterally wedged insoles and toe-in gait on knee adduction moment and balance in moderate medial knee osteoarthritis patients. <i>Gait and Posture</i> , 2018, 61, 243-249.	0.6	10
34	3Dâ€“printed biphasic calcium phosphate scaffolds coated with an oxygen generating system for enhancing engineered tissue survival. <i>Materials Science and Engineering C</i> , 2018, 84, 236-242.	3.8	77
35	Improvement on upper limb body-powered prostheses (1921â€“2016): A systematic review. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 3-11.	1.0	10
36	Awareness, potential factors, and post-amputation care of stump flexion contractures among transtibial amputees. <i>Turkish Journal of Physical Medicine and Rehabilitation</i> , 2018, 64, 268-276.	1.1	5

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37	Breathable tissue engineering scaffolds: An efficient design-optimization by additive manufacturing. <i>Materials Today: Proceedings</i> , 2018, 5, 15813-15820.	0.9	4
38	Mechanical behavior of calcium sulfate scaffold prototypes built by solid free-form fabrication. <i>Rapid Prototyping Journal</i> , 2018, 24, 1392-1400.	1.6	9
39	Sensorless control system for assistive robotic ankle-foot. <i>International Journal of Advanced Robotic Systems</i> , 2018, 15, 172988141877585.	1.3	3
40	Interface Pressure of Lycra Orthosis at Different Postures in Children with Cerebral Palsy (CP). <i>Sains Malaysiana</i> , 2018, 47, 763-771.	0.3	0
41	An anthropomorphic transhumeral prosthesis socket developed based on an oscillometric pump and controlled by force-sensitive resistor pressure signals. <i>Biomedizinische Technik</i> , 2017, 62, 49-55.	0.9	1
42	Analysis of voluntary opening Ottobock Hook and Hosmer Hook for upper limb prosthetics: a preliminary study. <i>Biomedizinische Technik</i> , 2017, 62, 447-454.	0.9	2
43	Poly(vinyl alcohol)- $\beta$ -chitin composites reinforced by oil palm empty fruit bunch fiber-derived nanocellulose. <i>International Journal of Polymer Analysis and Characterization</i> , 2017, 22, 294-304.	0.9	15
44	Synthesis and characterization of $\beta$ -TCP/CNT nanocomposite: Morphology, microstructure and in vitro bioactivity. <i>Ceramics International</i> , 2017, 43, 7573-7580.	2.3	14
45	A system for detection of cervical precancerous in field emission scanning electron microscope images using texture features. <i>Journal of Innovative Optical Health Sciences</i> , 2017, 10, 1650045.	0.5	13
46	Prosthesis donning and doffing questionnaire. <i>Prosthetics and Orthotics International</i> , 2017, 41, 571-578.	0.5	4
47	Dielectric and AC conductivity studies of novel porous armalcolite nanocomposite-based humidity sensor. <i>Journal of the American Ceramic Society</i> , 2017, 100, 5131-5140.	1.9	6
48	A new prosthetic alignment device to read and record prosthesis alignment data. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 1127-1132.	1.0	3
49	Clinical evaluation of a prosthetic suspension system. <i>Prosthetics and Orthotics International</i> , 2017, 41, 476-483.	0.5	6
50	Effect of stump flexion contracture with and without prosthetic alignment intervention towards postural stability among transtibial prosthesis users. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 210, 012002.	0.3	1
51	Analysis of Interrelationships among Voluntary and Prosthetic Leg Joint Parameters Using Cyclograms. <i>Frontiers in Neuroscience</i> , 2017, 11, 230.	1.4	3
52	Optical fiber Bragg grating-instrumented silicone liner for interface pressure measurement within prosthetic sockets of lower-limb amputees. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	1.4	11
53	A Pilot Study on Physical Performance Measures: What is Better for Knee Osteoarthritis Patients, Orthosis or Gait Modifications?. <i>IFMBE Proceedings</i> , 2017, , 163-167.	0.2	0
54	Synthesis and Characterizations of Novel Ca-Mg-Ti-Fe-Oxides Based Ceramic Nanocrystals and Flexible Film of Polydimethylsiloxane Composite with Improved Mechanical and Dielectric Properties for Sensors. <i>Sensors</i> , 2016, 16, 292.	2.1	19

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55	Techniques for Interface Stress Measurements within Prosthetic Sockets of Transtibial Amputees: A Review of the Past 50 Years of Research. <i>Sensors</i> , 2016, 16, 1119.	2.1	64
56	Uniformly Porous Nanocrystalline CaMgFe <sub>1.33</sub> Ti <sub>3</sub> O <sub>12</sub> Ceramic Derived Electro-Ceramic Nanocomposite for Impedance Type Humidity Sensor. <i>Sensors</i> , 2016, 16, 2029.	2.1	16
57	Design and Development for Capacitive Humidity Sensor Applications of Lead-Free Ca,Mg,Fe,Ti-Oxides-Based Electro-Ceramics with Improved Sensing Properties via Physisorption. <i>Sensors</i> , 2016, 16, 1135.	2.1	101
58	The limits of stability and muscle activity in middle-aged adults during static and dynamic stance. <i>Journal of Biomechanics</i> , 2016, 49, 3943-3948.	0.9	20
59	Polyurethane/58S bioglass nanofibers: synthesis, characterization, and in vitro evaluation. <i>RSC Advances</i> , 2016, 6, 35815-35824.	1.7	21
60	Design and development of an in situ synthesized layered double hydroxide structure of Fe-induced hydroxyapatite for drug carriers. <i>RSC Advances</i> , 2016, 6, 25549-25561.	1.7	12
61	Automated cervical precancerous cells screening system based on Fourier transform infrared spectroscopy features. <i>Journal of Biomedical Optics</i> , 2016, 21, 075005.	1.4	11
62	Development of biocompatible hydroxyapatite@poly(ethylene glycol) core-shell nanoparticles as an improved drug carrier: structural and electrical characterizations. <i>RSC Advances</i> , 2016, 6, 102853-102868.	1.7	12
63	Computer-aided screening system for cervical precancerous cells based on field emission scanning electron microscopy and energy dispersive x-ray images and spectra. <i>Optical Engineering</i> , 2016, 55, 103110.	0.5	7
64	A comparison of pressure distributions between two types of sockets in a bulbous stump. <i>Prosthetics and Orthotics International</i> , 2016, 40, 509-516.	0.5	12
65	Development and Validation of Fiber Bragg Grating Sensing Pad for Interface Pressure Measurements Within Prosthetic Sockets. <i>IEEE Sensors Journal</i> , 2016, 16, 965-974.	2.4	46
66	Optimal design of a 3D-printed scaffold using intelligent evolutionary algorithms. <i>Applied Soft Computing Journal</i> , 2016, 39, 36-47.	4.1	54
67	Ion size, loading, and charge determine the mechanical properties, surface apatite, and cell growth of silver and tantalum doped calcium silicate. <i>RSC Advances</i> , 2016, 6, 190-200.	1.7	23
68	Effect of technical parameters on porous structure and strength of 3D printed calcium sulfate prototypes. <i>Robotics and Computer-Integrated Manufacturing</i> , 2016, 37, 57-67.	6.1	119
69	Structure, Properties, and In Vitro Behavior of Heat-Treated Calcium Sulfate Scaffolds Fabricated by 3D Printing. <i>PLoS ONE</i> , 2016, 11, e0151216.	1.1	57
70	Quadratic of Half Ellipse Smoothing Technique for Cervical Cells FTIR Spectra in a Screening System. <i>Procedia Computer Science</i> , 2015, 59, 133-141.	1.2	2
71	In Vitro Study of Surface Modified Poly(ethylene glycol)-Impregnated Sintered Bovine Bone Scaffolds on Human Fibroblast Cells. <i>Scientific Reports</i> , 2015, 5, 9806.	1.6	47
72	Evaluation of <i>Trigonella foenum-graecum</i> extract in combination with swimming exercise compared to glibenclamide consumption on type 2 Diabetic rodents. <i>Food and Nutrition Research</i> , 2015, 59, 29717.	1.2	21

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73	Re. American Journal of Physical Medicine and Rehabilitation, 2015, 94, e60.	0.7	0
74	Fabrication and characterization of DLC coated microdimples on hip prosthesis heads. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1002-1012.	1.6	26
75	Epigallocatechin Gallate/Layered Double Hydroxide Nanohybrids: Preparation, Characterization, and In Vitro Anti-Tumor Study. PLoS ONE, 2015, 10, e0136530.	1.1	31
76	Effect of Tricalcium Magnesium Silicate Coating on the Electrochemical and Biological Behavior of Ti-6Al-4V Alloys. PLoS ONE, 2015, 10, e0138454.	1.1	12
77	Analysis of Jumping-Landing Manoeuvres after Different Speed Performances in Soccer Players. PLoS ONE, 2015, 10, e0143323.	1.1	11
78	Detection of Prosthetic Knee Movement Phases via In-Socket Sensors: A Feasibility Study. Scientific World Journal, The, 2015, 2015, 1-13.	0.8	7
79	Effect of layer printing delay on mechanical properties and dimensional accuracy of 3D printed porous prototypes in bone tissue engineering. Ceramics International, 2015, 41, 8320-8330.	2.3	100
80	Mechanical and physical behavior of newly developed functionally graded materials and composites of stainless steel 316L with calcium silicate and hydroxyapatite. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 49, 321-331.	1.5	53
81	Parametric study of radial functionally graded femoral prostheses with different geometries. Meccanica, 2015, 50, 1657-1678.	1.2	8
82	Comparison study of the prosthetics interface pressure profile of air splint socket and ICRC polypropylene socket for upper limb prosthetics. Biocybernetics and Biomedical Engineering, 2015, 35, 100-105.	3.3	8
83	Design and biomechanical performance analysis of a user-friendly orthotic device. Materials & Design, 2015, 65, 716-725.	5.1	14
84	Effect of starch content on the biodegradation of polycaprolactone/starch composite for fabricating in situ pore-forming scaffolds. Polymer Testing, 2015, 43, 94-102.	2.3	33
85	LOWER EXTREMITIES BIOMECHANICS OF REGULAR STAIR CLIMBING: SLIM VERSUS OBESE. Biomedical Engineering - Applications, Basis and Communications, 2015, 27, 1550036.	0.3	0
86	A review on powder-based additive manufacturing for tissue engineering: selective laser sintering and inkjet 3D printing. Science and Technology of Advanced Materials, 2015, 16, 033502.	2.8	502
87	Interface Stress in Socket/Residual Limb with Transtibial Prosthetic Suspension Systems During Locomotion on Slopes and Stairs. American Journal of Physical Medicine and Rehabilitation, 2015, 94, 1-10.	0.7	18
88	Cerebellum-inspired neural network solution of the inverse kinematics problem. Biological Cybernetics, 2015, 109, 561-574.	0.6	12
89	Evaluation of postural steadiness in below-knee amputees when wearing different prosthetic feet during various sensory conditions using the Biodex <sup>®</sup> Stability System. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2015, 229, 491-498.	1.0	6
90	Polycaprolactone/starch composite: Fabrication, structure, properties, and applications. Journal of Biomedical Materials Research - Part A, 2015, 103, 2482-2498.	2.1	94

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91	Effect of spatial inlet velocity profiles on the vortex formation pattern in a dilated left ventricle. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 90-96.	0.9	0
92	Effect of Geometrical Parameters on the Performance of Longitudinal Functionally Graded Femoral Prostheses. <i>Artificial Organs</i> , 2015, 39, 156-164.	1.0	17
93	Characterization and Mechanical Properties of Calcium Silicate/Citric Acid-Based Polymer Composite Materials. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 371-376.	1.1	12
94	Endothelial cell responses in terms of adhesion, proliferation, and morphology to stiffness of polydimethylsiloxane elastomer substrates. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2203-2213.	2.1	58
95	Mechanochemical Synthesis and Characterization of Silver (Ag) and Tantalum (Ta) Doped Calcium Silicate Nanopowders. <i>Science of Advanced Materials</i> , 2015, 7, 2664-2671.	0.1	9
96	PS4-1 A preliminary observation of variability in dynamic ankle joint stiffness during the propulsive phase of gait (PS4: Poster Short Presentation IV, Poster Session). <i>The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics</i> , 2015, 2015.8, 281.	0.0	0
97	Comparison of Various Functionally Graded Femoral Prostheses by Finite Element Analysis. <i>Scientific World Journal</i> , The, 2014, 2014, 1-17.	0.8	7
98	Postural movement strategies during sensory alterations in transtibial amputees: A comparative study with able-bodied subjects. , 2014, , .		0
99	Investigation of CPD and HMDS Sample Preparation Techniques for Cervical Cells in Developing Computer-Aided Screening System Based on FE-SEM/EDX. <i>Scientific World Journal</i> , The, 2014, 2014, 1-11.	0.8	16
100	Gait Biomechanics of Individuals with Transtibial Amputation: Effect of Suspension System. <i>PLoS ONE</i> , 2014, 9, e96988.	1.1	31
101	Effect of Layer Thickness and Printing Orientation on Mechanical Properties and Dimensional Accuracy of 3D Printed Porous Samples for Bone Tissue Engineering. <i>PLoS ONE</i> , 2014, 9, e108252.	1.1	208
102	Balance and Risk of Fall in Individuals with Bilateral Mild and Moderate Knee Osteoarthritis. <i>PLoS ONE</i> , 2014, 9, e92270.	1.1	82
103	Nature and Pattern of Cricket Injuries: The Asian Cricket Council Under-19, Elite Cup, 2013. <i>PLoS ONE</i> , 2014, 9, e100028.	1.1	11
104	Mechanical and In Vitro Biological Performance of Graphene Nanoplatelets Reinforced Calcium Silicate Composite. <i>PLoS ONE</i> , 2014, 9, e106802.	1.1	53
105	Postural Stability Characteristics of Transtibial Amputees Wearing Different Prosthetic Foot Types When Standing on Various Support Surfaces. <i>Scientific World Journal</i> , The, 2014, 2014, 1-6.	0.8	19
106	Technology Efficacy in Active Prosthetic Knees for Transfemoral Amputees: A Quantitative Evaluation. <i>Scientific World Journal</i> , The, 2014, 2014, 1-17.	0.8	24
107	A Comparison in Mechanical Properties of Cermets of Calcium Silicate with Ti-55Ni and Ti-6Al-4V Alloys for Hard Tissues Replacement. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	0.8	5
108	Comparative Study between Dermo, Pelite, and Seal-In X5 Liners: Effect on Patient's Satisfaction and Perceived Problems. <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	0.8	8



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109	Effect of Intra-Articular Hyaluronic Injection on Postural Stability and Risk of Fall in Patients with Bilateral Knee Osteoarthritis. <i>Scientific World Journal, The</i> , 2014, 2014, 1-6.	0.8	13
110	Review of the Socket Design and Interface Pressure Measurement for Transtibial Prosthesis. <i>Scientific World Journal, The</i> , 2014, 2014, 1-9.	0.8	50
111	Intelligent Screening Systems for Cervical Cancer. <i>Scientific World Journal, The</i> , 2014, 2014, 1-15.	0.8	41
112	Biomechanics principle of elbow joint for transhumeral prostheses: comparison of normal hand, body-powered, myoelectric & air splint prostheses. <i>BioMedical Engineering OnLine</i> , 2014, 13, 134.	1.3	6
113	Development of an Air Pneumatic Suspension System for Transtibial Prostheses. <i>Sensors</i> , 2014, 14, 16754-16765.	2.1	30
114	Treatment stability of Milwaukee brace in idiopathic hyperkyphosis. <i>Prosthetics and Orthotics International</i> , 2014, 38, 316-320.	0.5	5
115	Wear Debris Characterization and Corresponding Biological Response: Artificial Hip and Knee Joints. <i>Materials</i> , 2014, 7, 980-1016.	1.3	117
116	Role of Morphological Structure, Doping, and Coating of Different Materials in the Sensing Characteristics of Humidity Sensors. <i>Sensors</i> , 2014, 14, 16343-16422.	2.1	97
117	Piezoelectric Bimorphs™ Characteristics as In-Socket Sensors for Transfemoral Amputees. <i>Sensors</i> , 2014, 14, 23724-23741.	2.1	14
118	The postural control and vibration sensation in transtibial amputation. , 2014, , .		0
119	Effects of surface coating on reducing friction and wear of orthopaedic implants. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 014402.	2.8	211
120	Satisfaction and Problems Experienced with Wrist Movements. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2014, 93, 437-444.	0.7	6
121	Transfemoral Prosthesis Suspension Systems. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2014, 93, 809-823.	0.7	42
122	The Effects of Suction and Pin/Lock Suspension Systems on Transtibial Amputees™ Gait Performance. <i>PLoS ONE</i> , 2014, 9, e94520.	1.1	14
123	Transtibial prosthesis suspension systems: Systematic review of literature. <i>Clinical Biomechanics</i> , 2014, 29, 87-97.	0.5	55
124	New method for the isolation of endothelial cells from large vessels. <i>Cytotherapy</i> , 2014, 16, 1145-1152.	0.3	11
125	Extracellular matrix integrity affects the mechanical behaviour of in-situ chondrocytes under compression. <i>Journal of Biomechanics</i> , 2014, 47, 1004-1013.	0.9	31
126	Balance control in lower extremity amputees during quiet standing: A systematic review. <i>Gait and Posture</i> , 2014, 39, 672-682.	0.6	113



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127	Evaluation of new suspension system for limb prosthetics. BioMedical Engineering OnLine, 2014, 13, 1.	1.3	96
128	Magnesium incorporated hydroxyapatite: Synthesis and structural properties characterization. Ceramics International, 2014, 40, 6021-6029.	2.3	194
129	Facile synthesis of calcium silicate hydrate using sodium dodecyl sulfate as a surfactant assisted by ultrasonic irradiation. Ultrasonics Sonochemistry, 2014, 21, 735-742.	3.8	60
130	Mechanical and physical properties of calcium silicate/alumina composite for biomedical engineering applications. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 30, 168-175.	1.5	63
131	Clinical implication of interface pressure for a new prosthetic suspension system. BioMedical Engineering OnLine, 2014, 13, 89.	1.3	6
132	Prosthetics socket that incorporates an air splint system focusing on dynamic interface pressure. BioMedical Engineering OnLine, 2014, 13, 108.	1.3	12
133	Effect of exercise and gait retraining on knee adduction moment in people with knee osteoarthritis. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 190-199.	1.0	19
134	Synthesis, Mechanical Properties, and in Vitro Biocompatibility with Osteoblasts of Calcium Silicate-Reduced Graphene Oxide Composites. ACS Applied Materials & Interfaces, 2014, 6, 3947-3962.	4.0	153
135	Quantitative analysis of human ankle characteristics at different gait phases and speeds for utilizing in ankle-foot prosthetic design. BioMedical Engineering OnLine, 2014, 13, 19.	1.3	27
136	The effects of prosthetic foot type and visual alteration on postural steadiness in below-knee amputees. BioMedical Engineering OnLine, 2014, 13, 23.	1.3	20
137	Development and performance of a new prosthesis system using ultrasonic sensor for wrist movements: a preliminary study. BioMedical Engineering OnLine, 2014, 13, 49.	1.3	8
138	Improved bio-physical performance of hydroxyapatite coatings obtained by electrophoretic deposition at dynamic voltage. Ceramics International, 2014, 40, 12681-12691.	2.3	81
139	Strain Rate-Dependent Membrane Reservoir- Key to Chondrocyte Death by Impact. Biophysical Journal, 2014, 106, 451a.	0.2	0
140	Postural stability and pain in obese ladies with mild knee osteoarthritis after intra-articular hyalgan injection. Osteoarthritis and Cartilage, 2014, 22, S100-S101.	0.6	0
141	Is metal nanofluid reliable as heat carrier?. Journal of Hazardous Materials, 2014, 273, 183-191.	6.5	31
142	Artificial neural network approach to estimate the composition of chemically synthesized biphasic calcium phosphate powders. Ceramics International, 2014, 40, 12439-12448.	2.3	16
143	Three-dimensional finite element analyses of functionally graded femoral prostheses with different geometrical configurations. Materials & Design, 2014, 56, 998-1008.	5.1	45
144	Intrarater Test-Retest Reliability of Static and Dynamic Stability Indexes Measurement Using the Biodex Stability System During Unilateral Stance. Journal of Applied Biomechanics, 2014, 30, 300-304.	0.3	62

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145	Design and Development of Potential Tissue Engineering Scaffolds from Structurally Different Longitudinal Parts of a Bovine-Femur. <i>Scientific Reports</i> , 2014, 4, 5843.	1.6	33
146	Numerical investigation of the effect of cannula placement on thrombosis. <i>Theoretical Biology and Medical Modelling</i> , 2013, 10, 35.	2.1	36
147	Development of a Micro-Gripper Using Piezoelectric Bimorphs. <i>Sensors</i> , 2013, 13, 5826-5840.	2.1	50
148	Finite element analysis on longitudinal and radial functionally graded femoral prosthesis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 1412-1427.	1.0	21
149	Interface pressure in transtibial socket during ascent and descent on stairs and its effect on patient satisfaction. <i>Clinical Biomechanics</i> , 2013, 28, 994-999.	0.5	44
150	The Properties of Chondrocyte Membrane Reservoirs and Their Role in Impact-Induced Cell Death. <i>Biophysical Journal</i> , 2013, 105, 1590-1600.	0.2	18
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