Anita N Vasavada

List of Publications by Year
in descending order

31 papers	1,204 citations	623734 14 h-index	526287 27 g-index
32 all docs	32 docs citations	32 times ranked	1085 citing authors

#	Article	IF	Citations
1	Influence of Muscle Morphometry and Moment Arms on the Moment-Generating Capacity of Human Neck Muscles. Spine, 1998, 23, 412-422.	2.0	382
2	Head and neck anthropometry, vertebral geometry and neck strength in height-matched men and women. Journal of Biomechanics, 2008, 41, 114-121.	2.1	161
3	Three-Dimensional Isometric Strength of Neck Muscles in Humans. Spine, 2001, 26, 1904-1909.	2.0	110
4	Gravitational demand on the neck musculature during tablet computer use. Ergonomics, 2015, 58, 990-1004.	2.1	86
5	Assessing the Perception of Human-Like Mechanical Impedance for Robotic Systems. IEEE Transactions on Human-Machine Systems, 2013, 43, 479-486.	3.5	66
6	Three-dimensional spatial tuning of neck muscle activation in humans. Experimental Brain Research, 2002, 147, 437-448.	1.5	60
7	The inclusion of hyoid muscles improve moment generating capacity and dynamic simulations in musculoskeletal models of the head and neck. PLoS ONE, 2018, 13, e0199912.	2.5	49
8	Musculotendon and Fascicle Strains in Anterior and Posterior Neck Muscles During Whiplash Injury. Spine, 2007, 32, 756-765.	2.0	46
9	Defining and evaluating wrapping surfaces for MRI-derived spinal muscle paths. Journal of Biomechanics, 2008, 41, 1450-1457.	2.1	34
10	Collegiate and High School Athlete Neck Strength in Neutral and Rotated Postures. Journal of Strength and Conditioning Research, 2013, 27, 3173-3182.	2.1	33
11	Sex-specific prediction of neck muscle volumes. Journal of Biomechanics, 2013, 46, 899-904.	2.1	30
12	Sagittal plane kinematics of the adult hyoid bone. Journal of Biomechanics, 2012, 45, 531-536.	2.1	28
13	Moving muscle points provide accurate curved muscle paths in a model of the cervical spine. Journal of Biomechanics, 2012, 45, 400-404.	2.1	18
14	Neck Muscle Moment Arms Obtained In-Vivo from MRI: Effect of Curved and Straight Modeled Paths. Annals of Biomedical Engineering, 2017, 45, 2009-2024.	2.5	18
15	Sensitivity analysis of muscle properties and impact parameters on head injury risk in American football. Journal of Biomechanics, 2020, 100, 109411.	2.1	14
16	Neck muscle paths and moment arms are significantly affected by wrapping surface parameters. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 735-744.	1.6	13
17	Inter-individual variation in vertebral kinematics affects predictions of neck musculoskeletal models. Journal of Biomechanics, 2014, 47, 3288-3294.	2.1	10
18	Laboratory and field evaluation of a small form factor head impact sensor in un-helmeted play. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2018, 232, 242-254.	0.7	10

#	Article	IF	Citations
19	Neck musculoskeletal model generation through anthropometric scaling. PLoS ONE, 2020, 15, e0219954.	2.5	8
20	Neck posture is influenced by anticipation of stepping. Human Movement Science, 2019, 64, 108-122.	1.4	6
21	Effect of Subject-Specific Vertebral Position and Head and Neck Size on Calculation of Spine Musculoskeletal Moments. Annals of Biomedical Engineering, 2018, 46, 1844-1856.	2.5	5
22	Cervical Muscle Activation Due to an Applied Force in Response to Different Types of Acoustic Warnings. Annals of Biomedical Engineering, 2021, 49, 2260-2272.	2.5	5
23	The role of neck muscle co-contraction and postural changes in head kinematics after safe head impacts: Investigation of head/neck injury reduction. Journal of Biomechanics, 2021, 128, 110732.	2.1	3
24	Posture biofeedback increases cognitive load. Psychological Research, 2022, 86, 1892-1903.	1.7	3
25	Sit-Stand Workstations: Relations Among Postural Sway, Task, Proprioception and Discomfort. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 972-976.	0.3	2
26	Cervical Spine Musculotendon Lengths When Reading a Tablet in Three Seated Positions. Journal of Applied Biomechanics, 2021, 37, 122-129.	0.8	2
27	Shoulder and elbow requirements during sagittal reach as a result of changing anthropometry throughout pregnancy. Applied Ergonomics, 2021, 94, 103411.	3.1	2
28	Neck musculoskeletal model generation through anthropometric scaling. , 2020, 15, e0219954.		0
29	Neck musculoskeletal model generation through anthropometric scaling. , 2020, 15, e0219954.		0
30	Neck musculoskeletal model generation through anthropometric scaling. , 2020, 15, e0219954.		0
31	Neck musculoskeletal model generation through anthropometric scaling. , 2020, 15, e0219954.		0