John Goff

List of Publications by Year
in descending order

35	419	759233 12	752698 20
papers	citations	h-index	g-index

36	36	36	203
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Trajectory analysis of a soccer ball. American Journal of Physics, 2009, 77, 1020-1027.	0.7	65
2	A review of recent research into aerodynamics of sport projectiles. Sports Engineering, 2013, 16, 137-154.	1.1	52
3	Soccer ball lift coefficients via trajectory analysis. European Journal of Physics, 2010, 31, 775-784.	0.6	37
4	Hydrodynamic theory of photon drag. Physical Review B, 1997, 56, 15421-15430.	3.2	26
5	Theory of the photon-drag effect in simple metals. Physical Review B, 2000, 61, 10471-10477.	3.2	24
6	A comparison of Jabulani and Brazuca non-spin aerodynamics. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2014, 228, 188-194.	0.7	21
7	Parameter space for successful soccer kicks. European Journal of Physics, 2006, 27, 865-874.	0.6	16
8	Golden ratio in a coupled-oscillator problem. European Journal of Physics, 2007, 28, 897-902.	0.6	16
9	Model of the 2003 Tour de France. American Journal of Physics, 2004, 72, 575-579.	0.7	15
10	Wind-tunnel Experiments and Trajectory Analyses for Five Nonspinning Soccer Balls. Procedia Engineering, 2016, 147, 32-37.	1.2	15
11	Aerodynamic and surface comparisons between Telstar 18 and Brazuca. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2018, 232, 342-348.	0.7	14
12	Inclined-plane model of the 2004 Tour de France. European Journal of Physics, 2005, 26, 251-259.	0.6	13
13	Effect of Impact Mechanism on Head Accelerations in Menâ€™s Lacrosse Athletes. Journal of Applied Biomechanics, 2018, 34, 396-402.	0.8	11
14	Creating drag and lift curves from soccer trajectories. European Journal of Physics, 2017, 38, 044003.	0.6	11
15	Football boundary-layer separation via dust experiments. Sports Engineering, 2011, 14, 139-146.	1.1	10
16	Power and spin in the beautiful game. Physics Today, 2010, 63, 62-63.	0.3	9
17	Investigations into soccer aerodynamics via trajectory analysis and dust experiments. Procedia Engineering, 2012, 34, 158-163.	1.2	9
18	Parametric Study of Simulated Tennis Shoe Treads. Procedia Engineering, 2016, 147, 443-448.	1.2	7

#	Article	IF	Citations
19	Resources for sports engineering education. Sports Engineering, 2018, 21, 245-253.	1.1	7
20	Effect of a soccer ballâ€™s seam geometry on its aerodynamics and trajectory. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2020, 234, 19-29.	0.7	7
21	Effect of a soccer ballâ€™s surface texture on its aerodynamics and trajectory. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2019, 233, 67-74.	0.7	6
22	Heuristic model of air drag on a sphere. Physics Education, 2004, 39, 496-499.	0.5	5
23	Predicting Winning Times for Stages of the 2011 Tour de France Using an Inclined-Plane Model. Procedia Engineering, 2012, 34, 670-675.	1.2	4
24	Projectile Motion Gets the Hose. Physics Teacher, 2011, 49, 432-433.	0.3	3
25	Predicting Tour de France stage-winning times with continuous power and drag area models and high speeds in 2013. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2014, 228, 125-135.	0.7	2
26	Trying Physics: Analyzing the Motion of the Quickest Score in International Rugby. Physics Teacher, 2015, 53, 72-74.	0.3	2
27	Improving Tour de France modeling with allometric scaling. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2015, 229, 183-191.	0.7	2
28	Tour de France Modeling: 2015 Results and Comparisons with Elite Cyclist Power Data. Procedia Engineering, 2016, 147, 607-612.	1.2	2
29	Critical shoe contact area ratio for sliding on a tennis hard court. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2018, 232, 112-121.	0.7	2
30	Influence of Surface Properties on Soccer Ball Trajectories. Proceedings (mdpi), 2020, 49, 143.	0.2	2
31	Use of Video for Teaching Sports Mechanics. Proceedings (mdpi), 2020, 49, 112.	0.2	2
32	Multiple approaches to incorporating scattering states in non-degenerate perturbation theory. American Journal of Physics, 2020, 88, 711-722.	0.7	1
33	Measurements of the Flight Trajectory of a Spinning Soccer Ball and the Magnus Force Acting on It. Proceedings (mdpi), 2020, 49, 88.	0.2	1
34	A Fun General Education Physics Course: Physics of Sports. Physics Teacher, 2004, 42, 280-283.	0.3	0
35	Baseball Spin Doctors. American Scientist, 2021, 109, 268.	0.1	0