

Contents

Theme issue: Coevolving advances in animal flight and aerial robotics

	Article ID	Article ID
INTRODUCTION		
Coevolving advances in animal flight and aerial robotics D Lentink	20160119	20160081
ARTICLES		
Touchdown to take-off: at the interface of flight and surface locomotion WRT Roderick, MR Cutkosky and D Lentink	20160094	20160093
Features of owl wings that promote silent flight H Wagner, M Weger, M Klaas and W Schröder	20160078	20160084
Sleeping on the wing NC Rattenborg	20160082	20160080
Energetics in robotic flight at small scales K Karydis and V Kumar	20160088	20160083
Biomechanics of aerial righting in wingless nymphal stick insects Y Zeng, K Lam, Y Chen, M Gong, Z Xu and R Dudley	20160075	20160092
Flies compensate for unilateral wing damage through modular adjustments of wing and body kinematics FT Muijres, NA Iwasaki, MJ Elzinga, JM Melis and MH Dickinson	20160103	20160085
Aerodynamic evaluation of wing shape and wing orientation in four butterfly species using numerical simulations and a low-speed wind tunnel, and its implications for the design of flying micro-robots A Ortega Ancel, R Eastwood, D Vogt, C Ithier, M Smith, R Wood and M Kovač	20160087	20160079
Foraging in an unsteady world: bumblebee flight performance in field-realistic turbulence JD Crall, JJ Chang, RL Oppenheimer and SA Combes	20160086	20160076
Flow pattern similarities in the near wake of three bird species suggest a common role for unsteady aerodynamic effects in lift generation R Gurka, K Krishnan, H Ben-Gida, AJ Kirchhefer, GA Kopp and CG Guglielmo	20160090	
		Wake analysis of drag components in gliding flight of a jackdaw (<i>Corvus monedula</i>) during moult M KleinHeerenbrink and A Hedenström
		Rules to fly by: pigeons navigating horizontal obstacles limit steering by selecting gaps most aligned to their flight direction IG Ros, PS Bhagavatula, H-T Lin and AA Biewener
		Petiolate wings: effects on the leading-edge vortex in flapping flight N Phillips, K Knowles and RJ Bomphrey
		Dynamics and flight control of a flapping-wing robotic insect in the presence of wind gusts P Chirarattananon, Y Chen, EF Helbling, KY Ma, R Cheng and RJ Wood
		The influence of aspect ratio and stroke pattern on force generation of a bat-inspired membrane wing C Schunk, SM Swartz and KS Breuer
		Bioinspired morphing wings for extended flight envelope and roll control of small drones M Di Luca, S Mintchev, G Heitz, F Noca and D Floreano
		Wind and water tunnel testing of a morphing aquatic micro air vehicle R Siddall, A Ortega Ancel and M Kovač
		Reynolds number influence on the formation of vortical structures on a pitching flat plate A Widmann and C Tropea
		On the possibility (or lack thereof) of agreement between experiment and computation of flows over wings at moderate Reynolds number J Tank, L Smith and GR Spedding