# Charles-A Darveau

List of Publications by Year
in descending order



| 18 | 954 | 687363 13 | 839539 18 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 18 | 18 | 18 | 1064 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Allometric cascade as a unifying principle of body mass effects on metabolism. Nature, 2002, 417, 166-170. | 27.8 | 433 |
| 2 | Energy metabolism in orchid bee flight muscles: carbohydrate fuels all. Journal of Experimental Biology, 2005, 208, 3573-3579. | 1.7 | 112 |
| 3 | Proline as a fuel for insect flight: enhancing carbohydrate oxidation in hymenopterans. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160333. | 2.6 | 95 |
| 4 | Allometric scaling of flight energetics in Panamanian orchid bees: a comparative phylogenetic approach. Journal of Experimental Biology, 2005, 208, 3581-3591. | 1.7 | 60 |
| 5 | â€œAlternativeâ€•fuels contributing to mitochondrial electron transport: Importance of non-classical pathways in the diversity of animal metabolism. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 185-194. | 1.6 | 44 |
| 6 | Allometric scaling of flight energetics in orchid bees: evolution of flux capacities and flux rates. Journal of Experimental Biology, 2005, 208, 3593-3602. | 1.7 | 32 |
| 7 | Morphological and Physiological Idiosyncrasies Lead to Interindividual Variation in Flight Metabolic Rate in Worker Bumblebees (Bombus impatiens). Physiological and Biochemical Zoology, 2012, 85, 657-670. | 1.5 | 25 |
| 8 | Roles of hierarchical and metabolic regulation in the allometric scaling of metabolism in Panamanian orchid bees. Journal of Experimental Biology, 2005, 208, 3603-3607. | 1.7 | 22 |
| 9 | Why does metabolic rate scale with body size?/Allometric cascades. Nature, 2003, 421, 714-714. | 27.8 | 19 |
| 10 | Intraspecific variation in flight metabolic rate in the bumblebeeBombus impatiens: repeatability and functional determinants in workers and drones. Journal of Experimental Biology, 2014, 217, 536-44. | 1.7 | 19 |
| 11 | Behavioural, morphological, and metabolic maturation of newly emerged adult workers of the bumblebee, Bombus impatiens. Journal of Insect Physiology, 2011, 57, 704-711. | 2.0 | 17 |
| 12 | Setting the pace of life: membrane composition of flight muscle varies with metabolic rate of hovering orchid bees. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142232. | 2.6 | 17 |
| 13 | Body Morphology, Energy Stores, and Muscle Enzyme Activity Explain Cricket Acoustic Mate Attraction Signaling Variation. PLoS ONE, 2014, 9, e90409. | 2.5 | 17 |
| 14 | Setting Conservation Priorities in a Widespread Species: Phylogeographic and Physiological Variation in the Lake Chub, Couesius plumbeus (Pisces: Cyprinidae). Diversity, 2013, 5, 149-165. | 1.7 | 12 |
| 15 | Thermal Physiology of Warm-Spring Colonists: Variation among Lake Chub (Cyprinidae: Couesius) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.5 | 11 |
| 16 | Proline as a Sparker Metabolite of Oxidative Metabolism during the Flight of the Bumblebee, Bombus impatiens. Metabolites, 2021, 11, 511. | 2.9 | 8 |
| 17 | Diversity in membrane composition is associated with variation in thermoregulatory capacity in hymenopterans.. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 115-120. | 1.6 | 7 |
| 18 | Flight energetics, caste dimorphism and scaling properties in the bumblebee Bombus impatiens. Journal of Experimental Biology, 2019, 222, . | 1.7 | 4 |