Pete Vukusic

List of Publications by Year in descending order

28 papers	2,996 citations	471061 17 h-index	525886 27 g-index
28 all docs	28 docs citations	28 times ranked	3682 citing authors

#	Article	IF	Citations
1	Photonic structures in biology. Nature, 2003, 424, 852-855.	13.7	1,731
2	Mimicking the colourful wing scale structure of the Papilio blumei butterfly. Nature Nanotechnology, 2010, 5, 511-515.	15.6	353
3	Brilliant Whiteness in Ultrathin Beetle Scales. Science, 2007, 315, 348-348.	6.0	238
4	Directionally Controlled Fluorescence Emission in Butterflies. Science, 2005, 310, 1151-1151.	6.0	141
5	Light manipulation in a marine diatom. Journal of Materials Research, 2008, 23, 3229-3235.	1.2	69
6	Light manipulation principles in biological photonic systems. Nanophotonics, 2013, 2, 289-307.	2.9	54
7	Evolutionary Photonics with a Twist. Science, 2009, 325, 398-399.	6.0	44
8	Characterization of a Mechanically Tunable Gyroid Photonic Crystal Inspired by the Butterfly Parides Sesostris. Advanced Optical Materials, 2016, 4, 99-105.	3.6	44
9	Wing scale ultrastructure underlying convergent and divergent iridescent colours in mimetic Heliconius butterflies. Journal of the Royal Society Interface, 2018, 15, 20170948.	1.5	35
10	Vapor sensing with a natural photonic cell. Optics Express, 2016, 24, 12267.	1.7	32
11	Structural colour in Lepidoptera. Current Biology, 2006, 16, R621-R623.	1.8	31
12	Liquidâ€“liquid phase separation morphologies in ultra-white beetle scales and a synthetic equivalent. Communications Chemistry, 2019, 2, .	2.0	28
13	Optically ambidextrous circularly polarized reflection from the chiral cuticle of the scarab beetleChrysina resplendens. Journal of the Royal Society Interface, 2017, 14, 20170129.	1.5	27
14	Microstructural design for mechanicalâ€“optical multifunctionality in the exoskeleton of the flower beetle Torynorrhina flammea. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	23
15	Classification of peacock feather reflectance using principal component analysis similarity factors from multispectral imaging data. Optics Express, 2015, 23, 10198.	1.7	22
16	Structural Colours in Lepidopteran Scales. Advances in Insect Physiology, 2018, , 1-53.	1.1	22
17	Circularly polarized reflection from the scarab beetle Chalcothea smaragdina : light scattering by a dual photonic structure. Interface Focus, 2017, 7, 20160129.	1.5	19
18	Optical costs and benefits of disorder in biological photonic crystals. Faraday Discussions, 2020, 223, 9-48.	1.6	16

#	Article	IF	Citations
19	Structural Colour: Elusive Iridescence Strategies Brought to Light. Current Biology, 2011, 21, R187-R189.	1.8	13
20	Direct mapping of surface plasmon dispersion using imaging scatterometry. Applied Physics Letters, 2013, 102, .	1.5	13
21	Nonlinear optical spectroscopy and two-photon excited fluorescence spectroscopy reveal the excited states of fluorophores embedded in a beetleâ€™s elytra. Interface Focus, 2019, 9, 20180052.	1.5	12
22	Natural designs for manipulating the appearance of surfaces. Ophthalmic and Physiological Optics, 2010, 30, 435-445.	1.0	7
23	Detailed experimental characterization of reflectance spectra ofSasakia charondabutterfly using multispectral optical imaging. Optical Engineering, 2014, 53, 033111.	0.5	6
24	Measuring and modelling the reflectance spectra of male Swinhoe's pheasant feather barbules. Journal of the Royal Society Interface, 2015, 12, 20141354.	1.5	5
25	X-ray nano-tomography of complete scales from the ultra-white beetles Lepidiota stigma and Cyphochilus. Scientific Data, 2020, 7, 163.	2.4	4
26	Surface plasmons at the Brillouin zone boundary of an oblique lattice. Applied Physics Letters, 2015, 106, .	1.5	3
27	Unveiling the nonlinear optical response of Trictenotoma childreni longhorn beetle. Journal of Biophotonics, 2019, 12, e201800470.	1.1	3
28	Colour and fluorescence emission of Euchroea auripigmenta beetle. , 2019, , .		1