

Vinod Kumar Saranathan

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

2,114
citations

471061

17
h-index

552369

26
g-index

33
all docs

33
docs citations

33
times ranked

2472
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of single gyroid photonic crystals in bird feathers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	26
2	Cellular and developmental basis of avian structural coloration. Current Opinion in Genetics and Development, 2021, 69, 56-64.	1.5	16
3	Structural color from solid-state polymerization-induced phase separation. Soft Matter, 2021, 17, 5772-5779.	1.2	12
4	The evolution of coloration and opsins in tarantulas. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201688.	1.2	5
5	Brilliant angle-independent structural colours preserved in weevil scales from the Swiss Pleistocene. Biology Letters, 2020, 16, 20200063.	1.0	4
6	Evolution of Insect Iridescence: Origins of Three-Dimensional Photonic Crystals in Weevils (Coleoptera: Curculionoidea). Integrative and Comparative Biology, 2019, 59, 1664-1672.	0.9	14
7	Topology of Minimal Surface Biophotonic Nanostructures in Arthropods. Springer Series in Solid-state Sciences, 2018, , 275-290.	0.3	1
8	A Literal Elytral Rainbow: Tunable Structural Colors Using Single Diamond Biophotonic Crystals in <i>Pachyrhynchus congestus</i> Weevils. Small, 2018, 14, e1802328.	5.2	21
9	Structural Diversity of Arthropod Biophotonic Nanostructures Spans Amphiphilic Phase-Space. Nano Letters, 2015, 15, 3735-3742.	4.5	80
10	Cryptic iridescence in a fossil weevil generated by single diamond photonic crystals. Journal of the Royal Society Interface, 2014, 11, 20140736.	1.5	16
11	Color Production by Isotropic Nanostructures with Short-range Order in Bird Feather Barbs. , 2013, , .		0
12	Structure and optical function of amorphous photonic nanostructures from avian feather barbs: a comparative small angle X-ray scattering (SAXS) analysis of 230 bird species. Journal of the Royal Society Interface, 2012, 9, 2563-2580.	1.5	127
13	Short-range order and near-field effects on optical scattering and structural coloration. Optics Express, 2011, 19, 8208.	1.7	65
14	Colour-producing β -keratin nanofibres in blue penguin (<i>Eudyptula minor</i>) feathers. Biology Letters, 2011, 7, 543-546.	1.0	48
15	Biomimetic Isotropic Nanostructures for Structural Coloration. Advanced Materials, 2010, 22, 2939-2944.	11.1	345
16	How Noniridescent Colors Are Generated by Quasi-ordered Structures of Bird Feathers. Advanced Materials, 2010, 22, 2871-2880.	11.1	228
17	Structural Color: How Noniridescent Colors Are Generated by Quasi-ordered Structures of Bird Feathers (Adv. Mater. 26-27/2010). Advanced Materials, 2010, 22, n/a-n/a.	11.1	3
18	Contribution of double scattering to structural coloration in quasiordered nanostructures of bird feathers. Physical Review E, 2010, 81, 051923.	0.8	23

#	ARTICLE	IF	CITATIONS
19	Structure, function, and self-assembly of single network gyroid (I_4^1) photonic crystals in butterfly wing scales. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11676-11681.	3.3	428
20	Double scattering of light from Biophotonic Nanostructures with short-range order. Optics Express, 2010, 18, 11942.	1.7	39
21	Double Scattering of Light from Biophotonic Nanostructures with Short-Range Order. , 2010, , .		0
22	Electron tomography, three-dimensional Fourier analysis and colour prediction of a three-dimensional amorphous biophotonic nanostructure. Journal of the Royal Society Interface, 2009, 6, S213-20.	1.5	46
23	Self-assembly of amorphous biophotonic nanostructures by phase separation. Soft Matter, 2009, 5, 1792.	1.2	222
24	The colour of fossil feathers. Biology Letters, 2008, 4, 522-525.	1.0	167
25	SUNLIGHT ON FEATHERS INHIBITS FEATHER-DEGRADING BACTERIA. Wilson Journal of Ornithology, 2007, 119, 239-245.	0.1	22
26	Genetic evidence supports song learning in the three-wattled bellbird <i>Procnias tricarunculata</i> (Cotingidae). Molecular Ecology, 2007, 16, 3689-3702.	2.0	77
27	Characterization of polymorphic microsatellite loci for the invasive monk parakeet (<i>Myiopsitta tjiribae</i>) in Brazil. Molecular Ecology, 2007, 16, 1414-1421.	1.7	12
28	Synchronization in disordered Josephson junction arrays: Small-world connections and the Kuramoto model. Physical Review E, 2005, 71, 016215.	0.8	62