

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	Structure, function, and self-assembly of single network gyroid (I_4^{132}) 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
2	Biomimetic Isotropic Nanostructures for Structural Coloration. Advanced Materials, 2010, 22, 2939-2944.	11.1	345
3	How Noniridescent Colors Are Generated by Quasi-ordered Structures of Bird Feathers. Advanced Materials, 2010, 22, 2871-2880.	11.1	228
4	Self-assembly of amorphous biophotonic nanostructures by phase separation. Soft Matter, 2009, 5, 1792.	1.2	222
5	The colour of fossil feathers. Biology Letters, 2008, 4, 522-525.	1.0	167
6	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
7	Structural Diversity of Arthropod Biophotonic Nanostructures Spans Amphiphilic Phase-Space. Nano Letters, 2015, 15, 3735-3742.	4.5	80
8	Genetic evidence supports song learning in the three-wattled bellbird (<i>Procnias tricarunculata</i>) (Cotingidae). Molecular Ecology, 2007, 16, 3689-3702.	2.0	77
9	Short-range order and near-field effects on optical scattering and structural coloration. Optics Express, 2011, 19, 8208.	1.7	65
10	Synchronization in disordered Josephson junction arrays: Small-world connections and the Kuramoto model. Physical Review E, 2005, 71, 016215.	0.8	62
11	Colour-producing β -keratin nanofibres in blue penguin (<i>Eudyptula minor</i>) feathers. Biology Letters, 2011, 7, 543-546.	1.0	48
12	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
13	Double scattering of light from Biophotonic Nanostructures with short-range order. Optics Express, 2010, 18, 11942.	1.7	39
14	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
15	Contribution of double scattering to structural coloration in quasiordered nanostructures of bird feathers. Physical Review E, 2010, 81, 051923.	0.8	23
16	SUNLIGHT ON FEATHERS INHIBITS FEATHER-DEGRADING BACTERIA. Wilson Journal of Ornithology, 2007, 119, 239-245.	0.1	22
17	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
18	Cryptic iridescence in a fossil weevil generated by single diamond photonic crystals. Journal of the Royal Society Interface, 2014, 11, 20140736.	1.5	16

#	ARTICLE	IF	CITATIONS
19	Cellular and developmental basis of avian structural coloration. <i>Current Opinion in Genetics and Development</i> , 2021, 69, 56-64.	1.5	16
20	Evolution of Insect Iridescence: Origins of Three-Dimensional Photonic Crystals in Weevils (Coleoptera: Curculionoidea). <i>Integrative and Comparative Biology</i> , 2019, 59, 1664-1672.	0.9	14
21	Characterization of polymorphic microsatellite loci for the invasive monk parakeet (<i>Myiopsitta tjiribae</i>). <i>Journal of Heredity</i> , 2019, 110, 107-114.	1.7	12
22	Structural color from solid-state polymerization-induced phase separation. <i>Soft Matter</i> , 2021, 17, 5772-5779.	1.2	12
23	The evolution of coloration and opsins in tarantulas. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201688.	1.2	5
24	Brilliant angle-independent structural colours preserved in weevil scales from the Swiss Pleistocene. <i>Biology Letters</i> , 2020, 16, 20200063.	1.0	4
25	Structural Color: How Noniridescent Colors Are Generated by Quasi-ordered Structures of Bird Feathers (<i>Adv. Mater.</i> 26-27/2010). <i>Advanced Materials</i> , 2010, 22, n/a-n/a.	11.1	3
26	Topology of Minimal Surface Biophotonic Nanostructures in Arthropods. <i>Springer Series in Solid-state Sciences</i> , 2018, , 275-290.	0.3	1
27	Color Production by Isotropic Nanostructures with Short-range Order in Bird Feather Barbs. , 2013, , .		0
28	Double Scattering of Light from Biophotonic Nanostructures with Short-Range Order. , 2010, , .		0