Vakayil K Praveen

List of Publications by Citations

66 papers	6,997 citations	38 h-index	72 g-index
72 ext. papers	7,448 ext. citations	11.2 avg, IF	6.34 L-index

#	Paper	IF	Citations
66	Functional Ægelators and their applications. *Chemical Reviews*, **2014**, 114, 1973-2129	68.1	1375
65	Pi-organogels of self-assembled p-phenylenevinylenes: soft materials with distinct size, shape, and functions. *Accounts of Chemical Research*, **2007**, 40, 644-56	24.3	802
64	Organogels as scaffolds for excitation energy transfer and light harvesting. *Chemical Society Reviews*, **2008**, 37, 109-22	58.5	658
63	Molecular wire encapsulated into pi organogels: efficient supramolecular light-harvesting antennae with color-tunable emission. *Angewandte Chemie - International Edition*, **2007**, 46, 6260-5	16.4	276
62	RGB Emission through Controlled Donor Self-Assembly and Modulation of Excitation Energy Transfer: A Novel Strategy to White-Light-Emitting Organogels. *Advanced Materials*, **2009**, 21, 2059-2063	24	252
61	Gelation-assisted light harvesting by selective energy transfer from an oligo(p-phenylenevinylene)-based self-assembly to an organic dye. *Angewandte Chemie - International Edition*, **2003**, 42, 332-5	16.4	209
60	White-light-emitting supramolecular gels. *Angewandte Chemie - International Edition*, **2014**, 53, 365-8	16.4	208
59	From vesicles to helical nanotubes: a sergeant-and-soldiers effect in the self-assembly of oligo(p-phenyleneethynylene)s. *Angewandte Chemie - International Edition*, **2006**, 45, 7729-32	16.4	196
58	Evolution of nano- to microsized spherical assemblies of a short oligo(p-phenyleneethynylene) into superstructured organogels. *Angewandte Chemie - International Edition*, **2006**, 45, 3261-4	16.4	173
57	Self-location of acceptors as "isolated" or "stacked" energy traps in a supramolecular donor self-assembly: a strategy to wavelength tunable FRET emission. *Journal of the American Chemical Society*, **2006**, 128, 7174-5	16.4	164
56	Oligo(phenylenevinylene) hybrids and self-assemblies: versatile materials for excitation energy transfer. *Chemical Society Reviews*, **2014**, 43, 4222-42	58.5	163
55	Quadrupolar Ægels: SolÆgel Tunable RedÆGreenÆBlue Emission in DonorÆAcceptor-Type Oligo(p-phenylenevinylene)s. *Advanced Materials*, **2007**, 19, 411-415	24	149
54	Self-assembled pi-nanotapes as donor scaffolds for selective and thermally gated fluorescence resonance energy transfer (FRET). *Journal of the American Chemical Society*, **2006**, 128, 7542-50	16.4	147
53	Bioinspired superhydrophobic coatings of carbon nanotubes and linear pi systems based on the "bottom-up" self-assembly approach. *Angewandte Chemie - International Edition*, **2008**, 47, 5750-4	16.4	145
52	The Chemistry and Applications of Ægels. *Annual Review of Materials Research*, **2016**, 46, 235-262	12.8	128
51	Self-assembly of oligo(para-phenylenevinylene)s through arene-perfluoroarene interactions: pi gels with longitudinally controlled fiber growth and supramolecular exciplex-mediated enhanced emission. *Chemistry - A European Journal*, **2008**, 14, 9577-84	4.8	113
50	Carbon nanotube triggered self-assembly of oligo(p-phenylene vinylene)s to stable hybrid pi-gels. *Angewandte Chemie - International Edition*, **2008**, 47, 5746-9	16.4	112

49	Detection of nitroaromatic explosives with fluorescent molecular assemblies and gels. *Chemical Record*, **2015**, 15, 252-65	6.6	99
48	Helical Supramolecular Architectures of Self-Assembled Linear Systems. *Bulletin of the Chemical Society of Japan*, **2008**, 81, 1196-1211	5.1	96
47	Supramolecular Reassembly of Self-Exfoliated Ionic Covalent Organic Nanosheets for Label-Free Detection of Double-Stranded DNA. *Angewandte Chemie - International Edition*, **2018**, 57, 8443-8447	16.4	85
46	The Helix to Super-Helix Transition in the Self-Assembly of Systems: Superseding of Molecular Chirality at Hierarchical Level. *Angewandte Chemie - International Edition*, **2017**, 56, 12634-12638	16.4	85
45	Self-Assembly of Bodipy-Derived Extended Systems. *Bulletin of the Chemical Society of Japan*, **2018**, 91, 100-120	5.1	74
44	Ultrasound stimulated nucleation and growth of a dye assembly into extended gel nanostructures. *Chemistry - A European Journal*, **2013**, 19, 12991-3001	4.8	74
43	Excitation energy migration in oligo(p-phenylenevinylene) based organogels: structure-property relationship and FRET efficiency. *Physical Chemistry Chemical Physics*, **2011**, 13, 4942-9	3.6	73
42	Supercoiled fibres of self-sorted donor-acceptor stacks: a turn-off/turn-on platform for sensing volatile aromatic compounds. *Chemical Science*, **2016**, 7, 4460-4467	9.4	71
41	Evolution of Nano- to Microsized Spherical Assemblies of a Short Oligo(p-phenyleneethynylene) into Superstructured Organogels. *Angewandte Chemie*, **2006**, 118, 3339-3342	3.6	63
40	Photoresponsive metal organic materials: exploiting the azobenzene switch. *Materials Horizons*, **2014**, 1, 572-576	14.4	62
39	From Vesicles to Helical Nanotubes: A Sergeant-and-Soldiers Effect in the Self-Assembly of Oligo(p-phenyleneethynylene)s. *Angewandte Chemie*, **2006**, 118, 7893-7896	3.6	62
38	A slippery molecular assembly allows water as a self-erasable security marker. *Scientific Reports*, **2015**, 5, 9842	4.9	61
37	Gelation-Assisted Light Harvesting by Selective Energy Transfer from an Oligo(p-phenylenevinylene)-Based Self-Assembly to an Organic Dye. *Angewandte Chemie*, **2003**, 115, 346-349	3.6	59
36	Anisotropic Self-Assembly of Photoluminescent Oligo(p-Phenylenevinylene) Derivatives in Liquid Crystals: An Effective Strategy for the Macroscopic Alignment of Gels. *Advanced Materials*, **2009**, 21, 4029-4033	24	53
35	Light driven mesoscale assembly of a coordination polymeric gelator into flowers and stars with distinct properties. *Chemical Science*, **2015**, 6, 6583-6591	9.4	52
34	Self-Assembled Extended Systems for Sensing and Security Applications. *Accounts of Chemical Research*, **2020**, 53, 496-507	24.3	52
33	The Rise of Near-Infrared Emitters: Organic Dyes, Porphyrinoids, and Transition Metal Complexes. *Topics in Current Chemistry*, **2016**, 374, 47	7.2	47
32	Weichtemittierende supramolekulare Gele. *Angewandte Chemie*, **2014**, 126, 373-376	3.6	45

31	An unprecedented amplification of near-infrared emission in a Bodipy derived system by stress or gelation. *Chemical Science*, **2017**, 8, 5644-5649	9.4	44
30	The Helix to Super-Helix Transition in the Self-Assembly of Systems: Superseding of Molecular Chirality at Hierarchical Level. *Angewandte Chemie*, **2017**, 129, 12808-12812	3.6	40
29	Shape-directed assembly of a "macromolecular barb" into nanofibers: stereospecific cyclopolymerization of isopropylidene diallylmalonate. *Journal of the American Chemical Society*, **2010**, 132, 3292-4	16.4	38
28	Photophysical investigation of 3-substituted 4-alkyl and/or 7-acetoxy coumarin derivatives--a study of the effect of substituents on fluorescence. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2010**, 75, 1610-6	4.4	37
27	One-Pot MCR-Oxidation Approach toward Indole-Fused Heteroacenes. *Journal of Organic Chemistry* , **2017**, 82, 10537-10548	4.2	33
26	Probing the initial stages of molecular organization of oligo(p-phenylenevinylene) assemblies with monolayer protected gold nanoparticles. *Chemistry - an Asian Journal*, **2009**, 4, 840-8	4.5	33
25	Hybrid materials of 1D and 2D carbon allotropes and synthetic systems. *NPG Asia Materials*, **2018**, 10, 107-126	10.3	32
24	Pyridyl-Amides as a Multimode Self-Assembly Driver for the Design of a Stimuli-Responsive Gelator. *Chemistry - an Asian Journal*, **2015**, 10, 2250-6	4.5	28
23	Effect of the bulkiness of the end functional amide groups on the optical, gelation, and morphological properties of oligo(p-phenylenevinylene) gelators. *Chemistry - an Asian Journal*, **2014**, 9, 1830-40	4.5	26
22	Supramolecular Reassembly of Self-Exfoliated Ionic Covalent Organic Nanosheets for Label-Free Detection of Double-Stranded DNA. *Angewandte Chemie*, **2018**, 130, 8579-8583	3.6	23
21	A self-recovering mechanochromic chiral gelator. *Journal of Materials Chemistry C*, **2019**, 7, 1292-1297	7.1	22
20	Self-Assembled Fibrillar Networks of Oligo(p-phenylenevinylene) Based Organogelators. *Macromolecular Symposia*, **2006**, 241, 1-8	0.8	19
19	Tweaking a BODIPY Spherical Self-Assembly to 2D Supramolecular Polymers Facilitates Excited-State Cascade Energy Transfer. *Angewandte Chemie - International Edition*, **2021**, 60, 7851-7859	16.4	16
18	Enhanced Emission in Self-Assembled Phenyleneethynylene Derived Gelators. *Advanced Optical Materials*, **2020**, 8, 2000173	8.1	13
17	Functionalizable 1H-Indazoles by Palladium Catalyzed Aza-Nenitzescu Reaction: Pharmacophores to Donor-Acceptor Type Multi-Luminescent Fluorophores. *Asian Journal of Organic Chemistry*, **2018**, 7, 2094-2104	3	12
16	Bimodal detection of carbon dioxide using fluorescent molecular aggregates. *Chemical Communications*, **2019**, 55, 6046-6049	5.8	11
15	Noncovalent Macromolecular Architectures of Oligo(p-phenylenevinylene)s (OPVs): Role of End Functional Groups on the Gelation of Organic Solvents. *Macromolecular Symposia*, **2008**, 273, 25-32	0.8	11
14	Helical supramolecular polymers with rationally designed binding sites for chiral guest recognition. *Nature Communications*, **2020**, 11, 2311	17.4	10

List of Publications

13	A Hybrid Organogel of a Low Band Gap Diketopyrrolopyrrole with PC71BM: Phase Separated Morphology and Enhanced Photoconductivity. *ChemNanoMat*, **2018**, 4, 831-836	3.5	10
12	Transforming a -Symmetrical Liquid Crystal to a Gelator by Alkoxy Chain Variation. *ACS Omega*, **2018**, 3, 4392-4399	3.9	9
11	Synthesis of hybrid polycycles containing fused hydroxy benzofuran and 1H-indazoles via a domino cyclization reaction. *New Journal of Chemistry*, **2019**, 43, 10166-10175	3.6	7
10	Translation of the assembling trajectory by preorganisation: a study of the magnetic properties of 1D polymeric unpaired electrons immobilised on a discrete nanoscopic scaffold. *Chemical Communications*, **2015**, 51, 1206-9	5.8	7
9	Chapter 7:Stimuli-responsive Supramolecular Gels. *Monographs in Supramolecular Chemistry*, **2018**, 190-226	2.6	7
8	Hybrid Materials from Poly(vinyl chloride) and Organogels. *ACS Applied Polymer Materials*, **2019**, 1, 1203-1208	4.3	6
7	CHAPTER 11:Metallosupramolecular Materials for Energy Applications: Light Harvesting. *RSC Smart Materials*, **2015**, 318-344	0.6	6
6	Self-Assembly in Sensor Nanotechnology **2017**, 297-320		4
5	Transition-Metal-Catalyzed Syntheses of Indazoles. *Asian Journal of Organic Chemistry*, **2020**, 9, 1410-1431	3.1	3
4	Superbase-Mediated Indirect Friedländer Reaction: A Transition Metal-Free Oxidative Annulation toward Functionalized Quinolines. *European Journal of Organic Chemistry*, **2020**, 2020, 3081-3089	3.2	3
3	Tweaking a BODIPY Spherical Self-Assembly to 2D Supramolecular Polymers Facilitates Excited-State Cascade Energy Transfer. *Angewandte Chemie*, **2021**, 133, 7930-7938	3.6	2
2	Hexamethine hemicyanine dye as a thermo-optical probe for serum albumin. *Optics and Laser Technology*, **2021**, 143, 107351	4.2	1
1	Effect of laser ablated gold nanoparticles on the nonlinear optical properties of extended BODIPY dyes. *Journal of Photochemistry and Photobiology A: Chemistry*, **2022**, 113997	4.7	1