Vakayil K Praveen

List of Publications by Year
in descending order

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64 papers	7,843 citations	71061 41 h-index	102432 66 g-index
72 all docs	72 docs citations	72 times ranked	6404 citing authors

#	Article	IF	Citations
1	Functional Ï€-Gelators and Their Applications. Chemical Reviews, 2014, 114, 1973-2129.	23.0	1,548
2	Ï€-Organogels of Self-Assembled p-Phenylenevinylenes: Soft Materials with Distinct Size, Shape, and Functions. Accounts of Chemical Research, 2007, 40, 644-656.	7.6	838
3	Organogels as scaffolds for excitation energy transfer and light harvesting. Chemical Society Reviews, 2008, 37, 109-122.	18.7	709
4	Molecular Wire Encapsulated into Ï€â€…Organogels: Efficient Supramolecular Lightâ€Harvesting Antennae with Colorâ€Tunable Emission. Angewandte Chemie - International Edition, 2007, 46, 6260-6265.	7.2	304
5	RGB Emission through Controlled Donor Selfâ€Assembly and Modulation of Excitation Energy Transfer: A Novel Strategy to Whiteâ€Lightâ€Emitting Organogels. Advanced Materials, 2009, 21, 2059-2063.	11.1	265
6	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, 332-335.	7.2	224
7	Whiteâ€Lightâ€Emitting Supramolecular Gels. Angewandte Chemie - International Edition, 2014, 53, 365-368.	7.2	223
8	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, 7729-7732.	7.2	201
9	Oligo(phenylenevinylene) hybrids and self-assemblies: versatile materials for excitation energy transfer. Chemical Society Reviews, 2014, 43, 4222-4242.	18.7	180
10	Evolution of Nano- to Microsized Spherical Assemblies of a Short Oligo(p-phenyleneethynylene) into Superstructured Organogels. Angewandte Chemie - International Edition, 2006, 45, 3261-3264.	7.2	178
11	Self-Location of Acceptors as â€œIsolatedâ€•or â€œStackedâ€•Energy Traps in a Supramolecular Donor Self-Assembly:Â A Strategy to Wavelength Tunable FRET Emission. Journal of the American Chemical Society, 2006, 128, 7174-7175.	6.6	176
12	Self-Assembled Ï€-Nanotapes as Donor Scaffolds for Selective and Thermally Gated Fluorescence Resonance Energy Transfer (FRET). Journal of the American Chemical Society, 2006, 128, 7542-7550.	6.6	158
13	Bioinspired Superhydrophobic Coatings of Carbon Nanotubes and Linear Ï€â€…Systems Based on the â€œBottomâ€upâ€•Selfâ€Assembly Approach. Angewandte Chemie - International Edition, 2008, 47, 5750-5754.	7.2	155
14	Quadrupolar Ï€-Gels: Solâ€“Gel Tunable Redâ€“Greenâ€“Blue Emission in Donorâ€“Acceptor-Type Oligo(p-phenylenevinylene)s. Advanced Materials, 2007, 19, 411-415.	11.1	152
15	Supramolecular Reassembly of Selfâ€Exfoliated Ionic Covalent Organic Nanosheets for Labelâ€Free Detection of Doubleâ€Stranded DNA. Angewandte Chemie - International Edition, 2018, 57, 8443-8447.	7.2	140
16	The Chemistry and Applications of Ï€-Gels. Annual Review of Materials Research, 2016, 46, 235-262.	4.3	131
17	Carbon Nanotube Triggered Selfâ€Assembly of Oligo(pâ€phenylene vinylene)s to Stable Hybrid Ï€â€Gels. Angewandte Chemie - International Edition, 2008, 47, 5746-5749.	7.2	119
18	Selfâ€Assembly of Oligo(paraâ€phenylenevinylene)s through Areneâ€“Perfluoroarene Interactions: Ï€â€…Gels with Longitudinally Controlled Fiber Growth and Supramolecular Exciplexâ€Mediated Enhanced Emission. Chemistry - A European Journal, 2008, 14, 9577-9584.	1.7	117

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19	Detection of Nitroaromatic Explosives with Fluorescent Molecular Assemblies and Ï€â€Gels. Chemical Record, 2015, 15, 252-265.	2.9	115
20	The Helix to Superâ€Helix Transition in the Selfâ€Assembly of Ï€â€Systems: Superseding of Molecular Chirality at Hierarchical Level. Angewandte Chemie - International Edition, 2017, 56, 12634-12638.	7.2	107
21	Self-Assembled Extended Ï€-Systems for Sensing and Security Applications. Accounts of Chemical Research, 2020, 53, 496-507.	7.6	100
22	Helical Supramolecular Architectures of Self-Assembled Linear Ï€-Systems. Bulletin of the Chemical Society of Japan, 2008, 81, 1196-1211.	2.0	99
23	Self-Assembly of Bodipy-Derived Extended Ï€-Systems. Bulletin of the Chemical Society of Japan, 2018, 91, 100-120.	2.0	89
24	Supercoiled fibres of self-sorted donorâ€“acceptor stacks: a turn-off/turn-on platform for sensing volatile aromatic compounds. Chemical Science, 2016, 7, 4460-4467.	3.7	80
25	Ultrasound Stimulated Nucleation and Growth of a Dye Assembly into Extended Gel Nanostructures. Chemistry - A European Journal, 2013, 19, 12991-13001.	1.7	79
26	Excitation energy migration in oligo(p-phenylenevinylene) based organogels: structure-property relationship and FRET efficiency. Physical Chemistry Chemical Physics, 2011, 13, 4942.	1.3	77
27	Photoresponsive metalâ€“organic materials: exploiting the azobenzene switch. Materials Horizons, 2014, 1, 572-576.	6.4	70
28	Title is missing!. Angewandte Chemie, 2003, 115, 346-349.	1.6	68
29	A slippery molecular assembly allows water as a self-erasable security marker. Scientific Reports, 2015, 5, 9842.	1.6	66
30	Light driven mesoscale assembly of a coordination polymeric gelator into flowers and stars with distinct properties. Chemical Science, 2015, 6, 6583-6591.	3.7	65
31	The Rise of Near-Infrared Emitters: Organic Dyes, Porphyrinoids, and Transition Metal Complexes. Topics in Current Chemistry, 2016, 374, 47.	3.0	58
32	Anisotropic Selfâ€Assembly of Photoluminescent Oligo(pâ€Phenylenevinylene) Derivatives in Liquid Crystals: An Effective Strategy for the Macroscopic Alignment of Ï€â€Gels. Advanced Materials, 2009, 21, 4029-4033.	11.1	56
33	An unprecedented amplification of near-infrared emission in a Bodipy derived Ï€-system by stress or gelation. Chemical Science, 2017, 8, 5644-5649.	3.7	56
34	Hybrid materials of 1D and 2D carbon allotropes and synthetic Ï€-systems. NPG Asia Materials, 2018, 10, 107-126.	3.8	49
35	Tweaking a BODIPY Spherical Selfâ€Assembly to 2D Supramolecular Polymers Facilitates Excitedâ€State Cascade Energy Transfer. Angewandte Chemie - International Edition, 2021, 60, 7851-7859.	7.2	49
36	The Helix to Superâ€Helix Transition in the Selfâ€Assembly of Ï€â€Systems: Superseding of Molecular Chirality at Hierarchical Level. Angewandte Chemie, 2017, 129, 12808-12812.	1.6	48

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37	One-Pot MCR-Oxidation Approach toward Indole-Fused Heteroacenes. Journal of Organic Chemistry, 2017, 82, 10537-10548.	1.7	45
38	Shape-Directed Assembly of a â€œMacromolecular Barbâ€•into Nanofibers: Stereospecific Cyclopolymerization of Isopropylidene Diallylmalonate. Journal of the American Chemical Society, 2010, 132, 3292-3294.	6.6	44
39	Probing the Initial Stages of Molecular Organization of Oligo(pâ€phenylenevinylene) Assemblies with Monolayer Protected Gold Nanoparticles. Chemistry - an Asian Journal, 2009, 4, 840-848.	1.7	40
40	Photophysical investigation of 3-substituted 4-alkyl and/or 7-acetoxy coumarin derivativesâ€"A study of the effect of substituents on fluorescence. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 75, 1610-1616.	2.0	39
41	Helical supramolecular polymers with rationally designed binding sites for chiral guest recognition. Nature Communications, 2020, 11, 2311.	5.8	37
42	Pyridylâ€Amides as a Multimode Selfâ€Assembly Driver for the Design of a Stimuliâ€Responsive Ïâ€Gelator. Chemistry - an Asian Journal, 2015, 10, 2250-2256.	1.7	31
43	Supramolecular Reassembly of Selfâ€Exfoliated Ionic Covalent Organic Nanosheets for Labelâ€Free Detection of Doubleâ€Stranded DNA. Angewandte Chemie, 2018, 130, 8579-8583.	1.6	29
44	A self-recovering mechanochromic chiral Ï€-gelator. Journal of Materials Chemistry C, 2019, 7, 1292-1297.	2.7	28
45	Effect of the Bulkiness of the End Functional Amide Groups on the Optical, Gelation, and Morphological Properties of Oligo(pâ€phenylenevinylene) Ïâ€Gelators. Chemistry - an Asian Journal, 2014, 9, 1830-1840.	1.7	27
46	Self-Assembled Fibrillar Networks of Oligo(p-phenylenevinylene) Based Organogelators. Macromolecular Symposia, 2006, 241, 1-8.	0.4	19
47	Functionalizable 1Hâ€Indazoles by Palladium Catalyzed Azaâ€Nenitzescu Reaction: Pharmacophores to Donorâ€Acceptor Type Multiâ€Luminescent Fluorophores. Asian Journal of Organic Chemistry, 2018, 7, 2094-2104.	1.3	19
48	Enhanced Emission in Selfâ€Assembled Phenyleneethynylene Derived Ïâ€Gelators. Advanced Optical Materials, 2020, 8, 2000173.	3.6	19
49	Bimodal detection of carbon dioxide using fluorescent molecular aggregates. Chemical Communications, 2019, 55, 6046-6049.	2.2	17
50	Transforming a C₃-Symmetrical Liquid Crystal to a Ï€-Gelator by Alkoxy Chain Variation. ACS Omega, 2018, 3, 4392-4399.	1.6	14
51	A Hybrid Organogel of a Low Band Gap Diketopyrrolopyrrole with PC₇₁BM: Phase Separated Morphology and Enhanced Photoconductivity. ChemNanoMat, 2018, 4, 831-836.	1.5	14
52	Transitionâ€Metalâ€Catalyzed Syntheses of Indazoles. Asian Journal of Organic Chemistry, 2020, 9, 1410-1431.	1.3	13
53	Noncovalent Macromolecular Architectures of Oligo(pâ€phenylenevinylene)s (OPVs): Role of End Functional Groups on the Gelation of Organic Solvents. Macromolecular Symposia, 2008, 273, 25-32.	0.4	11
54	Hybrid Materials from Poly(vinyl chloride) and Organogels. ACS Applied Polymer Materials, 2019, 1, 1203-1208.	2.0	11

#	Article	IF	Citations
55	Chapter 7. Stimuli-responsive Supramolecular Gels. Monographs in Supramolecular Chemistry, 2018, , 190-226.	0.2	10
56	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, 1206-1209.	2.2	9
57	Superbaseâ€Mediated Indirect FriedlÃnder Reaction: A Transition Metalâ€Free Oxidative Annulation toward Functionalized Quinolines. European Journal of Organic Chemistry, 2020, 2020, 3081-3089.	1.2	9
58	Synthesis of hybrid polycycles containing fused hydroxy benzofuran and 1H-indazoles via a domino cyclization reaction. New Journal of Chemistry, 2019, 43, 10166-10175.	1.4	8
59	Tweaking a BODIPY Spherical Selfâ€Assembly to 2D Supramolecular Polymers Facilitates Excitedâ€State Cascade Energy Transfer. Angewandte Chemie, 2021, 133, 7930-7938.	1.6	8
60	Metallosupramolecular Materials for Energy Applications: Light Harvesting. RSC Smart Materials, 2015, , 318-344.	0.1	6
61	Self-Assembly in Sensor Nanotechnology. , 2017, , 297-320.		5
62	Hexamethine hemicyanine dye as a thermo-optical probe for serum albumin. Optics and Laser Technology, 2021, 143, 107351.	2.2	4
63	Effect of laser ablated gold nanoparticles on the nonlinear optical properties of Ï€-extended BODIPY dyes. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 431, 113997.	2.0	3
64	An Efficient Magnesium Phyllosilicateâ€Nano Palladium Hybrid Catalyst for the Selective Oxidation of Organosilanes. ChemistrySelect, 2022, 7, .	0.7	1