Vladimir Stepanenko

List of Publications by Year in Descending Order

93 papers	6,215 citations	42 h-index	78 g-index
100 ext. papers	6,998 ext. citations	9.4 avg, IF	5.99 L-index

#	Paper	IF	Citations
93	Polymorphism in Squaraine Dye Aggregates by Self-Assembly Pathway Differentiation: Panchromatic Tubular Dye Nanorods versus J-Aggregate Nanosheets. *Angewandte Chemie - International Edition*, **2021**, 60, 11949-11958	16.4	19
92	An Efficient Narrowband Near-Infrared at 1040 nm Organic Photodetector Realized by Intermolecular Charge Transfer Mediated Coupling Based on a Squaraine Dye. *Advanced Materials*, **2021**, 33, e2100582	24	24
91	Polymorphism in Squaraine Dye Aggregates by Self-Assembly Pathway Differentiation: Panchromatic Tubular Dye Nanorods versus J-Aggregate Nanosheets. *Angewandte Chemie*, **2021**, 133, 12056-12065	3.6	5
90	Semitransparent Layers of Social Self-Sorting Merocyanine Dyes for Ultranarrow Bandwidth Organic Photodiodes. *Advanced Optical Materials*, **2021**, 9, 2100213	8.1	4
89	Surface-Promoted Evolution of Ru-bda Coordination Oligomers Boosts the Efficiency of Water Oxidation Molecular Anodes. *Journal of the American Chemical Society*, **2021**, 143, 11651-11661	16.4	7
88	Modulation of Crystallinity and Optical Properties in Composite Materials Combining Iron Oxide Nanoparticles and Dye-Containing Covalent Organic Frameworks. *Organic Materials*, **2021**, 03, 017-024	1.9	1
87	Tuning Aqueous Supramolecular Polymerization by an Acid-Responsive Conformational Switch. *Chemistry - A European Journal*, **2020**, 26, 10005-10013	4.8	3
86	Persistent Room Temperature Phosphorescence from Triarylboranes: A Combined Experimental and Theoretical Study. *Angewandte Chemie*, **2020**, 132, 17285-17292	3.6	6
85	Persistent Room Temperature Phosphorescence from Triarylboranes: A Combined Experimental and Theoretical Study. *Angewandte Chemie - International Edition*, **2020**, 59, 17137-17144	16.4	34
84	Self-Sorting Supramolecular Polymerization: Helical and Lamellar Aggregates of Tetra-Bay-Acyloxy Perylene Bisimide. *Angewandte Chemie - International Edition*, **2020**, 59, 17084-17090	16.4	20
83	Self-Sorting Supramolecular Polymerization: Helical and Lamellar Aggregates of Tetra-Bay-Acyloxy Perylene Bisimide. *Angewandte Chemie*, **2020**, 132, 17232-17238	3.6	8
82	Efficient Electronic Coupling in Perylenediimide Multilayered Films on Indium Tin Oxide. *Journal of Physical Chemistry C*, **2020**, 124, 5541-5551	3.8	4
81	Efficient Electrochemical Water Oxidation by a Trinuclear Ru(bda) Macrocycle Immobilized on Multi-Walled Carbon Nanotube Electrodes. *Advanced Energy Materials*, **2020**, 10, 2002329	21.8	8
80	Control of self-assembly pathways toward conglomerate and racemic supramolecular polymers. *Nature Communications*, **2020**, 11, 5460	17.4	16
79	Protein-like Enwrapped Perylene Bisimide Chromophore as a Bright Microcrystalline Emitter Material. *Angewandte Chemie*, **2019**, 131, 13519-13523	3.6	4
78	Anisotropic microfibres of a liquid-crystalline diketopyrrolopyrrole by self-assembly-assisted electrospinning. *Nanoscale Horizons*, **2019**, 4, 169-174	10.8	8
77	Supramolecular Polymorphism in One-Dimensional Self-Assembly by Kinetic Pathway Control. *Journal of the American Chemical Society*, **2019**, 141, 6092-6107	16.4	102

76	Linking two worlds in polymer chemistry: The influence of block uniformity and dispersity in amphiphilic block copolypeptoids on their self-assembly. *Biopolymers*, **2019**, 110, e23259	2.2	10
75	Supramolecular Block Copolymers by Seeded Living Polymerization of Perylene Bisimides. *Journal of the American Chemical Society*, **2019**, 141, 12044-12054	16.4	65
74	Protein-like Enwrapped Perylene Bisimide Chromophore as a Bright Microcrystalline Emitter Material. *Angewandte Chemie - International Edition*, **2019**, 58, 13385-13389	16.4	20
73	Impact of Molecular Shape on Supramolecular Copolymer Synthesis in Seeded Living Polymerization of Perylene Bisimides. *CCS Chemistry*, **2019**, 1, 598-613	7.2	16
72	Unraveling Concomitant Packing Polymorphism in Metallosupramolecular Polymers. *Journal of the American Chemical Society*, **2019**, 141, 5192-5200	16.4	70
71	A Self-Assembled Unit Comprising 12 Squaraine Dyes Built Up from Two Star-Shaped Hexasquarainyl-Benzene Molecules. *Chemistry - A European Journal*, **2019**, 25, 2831-2839	4.8	5
70	Microtubular Self-Assembly of Covalent Organic Frameworks. *Angewandte Chemie - International Edition*, **2018**, 57, 846-850	16.4	114
69	Hydrogen-bonded perylene bisimide J-aggregate aqua material. *Chemical Science*, **2018**, 9, 6904-6911	9.4	43
68	Exploiting N?H□□Cl Hydrogen Bonding Interactions in Cooperative Metallosupramolecular Polymerization. *Macromolecular Rapid Communications*, **2018**, 39, e1800191	4.8	16
67	Organic Electronics: Impact of 2-Ethylhexyl Stereoisomers on the Electrical Performance of Single-Crystal Field-Effect Transistors (Adv. Mater. 44/2018). *Advanced Materials*, **2018**, 30, 1870336	24	
66	Impact of 2-Ethylhexyl Stereoisomers on the Electrical Performance of Single-Crystal Field-Effect Transistors. *Advanced Materials*, **2018**, 30, e1804032	24	22
65	Cooperative nanoparticle H-type self-assembly of a bolaamphiphilic BODIPY derivative in aqueous medium. *Polymer*, **2017**, 128, 317-324	3.9	19
64	Self-Assembly of 9,10-Bis(phenylethynyl) Anthracene (BPEA) Derivatives: Influence of □ and Hydrogen-Bonding Interactions on Aggregate Morphology and Self-Assembly Mechanism. *Chemistry - A European Journal*, **2017**, 23, 6198-6205	4.8	34
63	Exciton Coupling of Merocyanine Dyes from H- to J-type in the Solid State by Crystal Engineering. *Nano Letters*, **2017**, 17, 1719-1726	11.5	47
62	Titelbild: Near-IR Absorbing J-Aggregate of an Amphiphilic BF2-Azadipyrromethene Dye by Kinetic Cooperative Self-Assembly (Angew. Chem. 21/2017). *Angewandte Chemie*, **2017**, 129, 5725-5725	3.6	
61	Near-IR Absorbing J-Aggregate of an Amphiphilic BF -Azadipyrromethene Dye by Kinetic Cooperative Self-Assembly. *Angewandte Chemie - International Edition*, **2017**, 56, 5729-5733	16.4	119
60	Near-IR Absorbing J-Aggregate of an Amphiphilic BF2-Azadipyrromethene Dye by Kinetic Cooperative Self-Assembly. *Angewandte Chemie*, **2017**, 129, 5823-5827	3.6	31
59	Living Supramolecular Polymerization of a Perylene Bisimide Dye into Fluorescent J-Aggregates. *Angewandte Chemie*, **2017**, 129, 16224-16228	3.6	37

58	Living Supramolecular Polymerization of a Perylene Bisimide Dye into Fluorescent J-Aggregates. *Angewandte Chemie - International Edition*, **2017**, 56, 16008-16012	16.4	109
57	Influence of Ester versus Amide Linkers on the Supramolecular Polymerization Mechanisms of Planar BODIPY Dyes. *Chemistry - A European Journal*, **2016**, 22, 15772-15777	4.8	47
56	Perylene bisimide hydrogels and lyotropic liquid crystals with temperature-responsive color change. *Chemical Science*, **2016**, 7, 6786-6790	9.4	64
55	Impact of Alkyl Spacer Length on Aggregation Pathways in Kinetically Controlled Supramolecular Polymerization. *Journal of the American Chemical Society*, **2016**, 138, 670-8	16.4	165
54	Control over the Self-Assembly Modes of Pt(II) Complexes by Alkyl Chain Variation: From Slipped to Parallel Stacks. *Chemistry - A European Journal*, **2016**, 22, 7810-6	4.8	28
53	Supramolecular block copolymers by kinetically controlled co-self-assembly of planar and core-twisted perylene bisimides. *Nature Communications*, **2015**, 6, 7009	17.4	149
52	Influence of Solid-State Packing of Dipolar Merocyanine Dyes on Transistor and Solar Cell Performances. *Journal of the American Chemical Society*, **2015**, 137, 13524-34	16.4	58
51	Cooperative Self-Assembly Transfer from Hierarchical Supramolecular Polymers to Gold Nanoparticles. *ACS Nano*, **2015**, 9, 11241-8	16.7	7
50	Organic Thin Film Transistors Based on Highly Dipolar Donor Acceptor Polymethine Dyes. *Advanced Functional Materials*, **2015**, 25, 44-57	15.6	37
49	Embedding of a ruthenium(ii) water oxidation catalyst into nanofibers via self-assembly. *Chemical Communications*, **2015**, 51, 290-3	5.8	46
48	Concentration-dependent patterns at the liquid/solid interface. *Chemical Science*, **2015**, 6, 5853-5858	9.4	19
47	Mechanism of self-assembly process and seeded supramolecular polymerization of perylene bisimide organogelator. *Journal of the American Chemical Society*, **2015**, 137, 3300-7	16.4	326
46	Organic Electronics: Organic Thin Film Transistors Based on Highly Dipolar Donor Acceptor Polymethine Dyes (Adv. Funct. Mater. 1/2015). *Advanced Functional Materials*, **2015**, 25, 167-167	15.6	
45	Subcomponent self-assembly of a 4 nm M4 L6 tetrahedron with Zn(II) vertices and perylene bisimide dye edges. *Chemistry - A European Journal*, **2015**, 21, 2766-9	4.8	52
44	High-performance organic thin-film transistors of J-stacked squaraine dyes. *Journal of the American Chemical Society*, **2014**, 136, 2351-62	16.4	97
43	Multiple CH O interactions involving glycol chains as driving force for the self-assembly of amphiphilic Pd(II) complexes. *Chemical Communications*, **2014**, 50, 13366-9	5.8	33
42	An organogelator design without solubilizing side chains by backbone contortion of a perylene bisimide pigment. *Materials Horizons*, **2014**, 1, 355	14.4	45
41	Hierarchical growth of fluorescent dye aggregates in water by fusion of segmented nanostructures. *Angewandte Chemie - International Edition*, **2014**, 53, 1270-4	16.4	101

40	H-aggregates of oligophenyleneethynylene (OPE)-BODIPY systems in water: guest size-dependent encapsulation mechanism and co-aggregate morphology. *Chemistry - A European Journal*, **2014**, 20, 10669-78	4.8	57
39	Hierarchical Growth of Fluorescent Dye Aggregates in Water by Fusion of Segmented Nanostructures. *Angewandte Chemie*, **2014**, 126, 1294-1298	3.6	38
38	Selbstorganisation und Bildung von (Hydro-)Gelen durch kooperative Wechselwirkungen und unkonventionelle C-H???X-Wasserstoffbrücken. *Angewandte Chemie*, **2014**, 126, 716-722	3.6	38
37	Self-assembly and (hydro)gelation triggered by cooperative and unconventional C-H X hydrogen bonding interactions. *Angewandte Chemie - International Edition*, **2014**, 53, 700-5	16.4	118
36	Effect of synthesis temperature on the morphology and stability of copper(I) hydride nanoparticles. *CrystEngComm*, **2013**, 15, 8450	3.3	13
35	Cooperative supramolecular polymerization: comparison of different models applied on the self-assembly of bis(merocyanine) dyes. *Chemistry - A European Journal*, **2013**, 19, 206-17	4.8	50
34	Charge transport through perylene bisimide molecular junctions: An electrochemical approach. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 2458-2467	1.3	20
33	Evidence for kinetic nucleation in helical nanofiber formation directed by chiral solvent for a perylene bisimide organogelator. *Chemistry - A European Journal*, **2013**, 19, 4176-83	4.8	58
32	Cooperative supramolecular polymerization driven by metallophilic Pd Pd interactions. *Journal of the American Chemical Society*, **2013**, 135, 2148-51	16.4	120
31	Structure-property relationship of perylene bisimide macrocycles probed by atomic force microscopy and single-molecule fluorescence spectroscopy. *ACS Nano*, **2013**, 7, 5064-76	16.7	32
30	Alternated stacks of nonpolar oligo(p-phenyleneethynylene)-BODIPY systems. *Chemistry - A European Journal*, **2012**, 18, 14957-61	4.8	41
29	Narcissistic versus social self-sorting of oligophenyleneethynylene derivatives: from isodesmic self-assembly to cooperative co-assembly. *Chemistry - A European Journal*, **2012**, 18, 15607-11	4.8	43
28	Alkaline earth imidazolate coordination polymers by solvent free melt synthesis as potential host lattices for rare earth photoluminescence: (x) AE(Im)2(ImH)(2-3)], Mg, Ca, Sr, Ba, x = 1-2. *Dalton Transactions*, **2012**, 41, 4067-78	4.3	31
27	Reorganization of perylene bisimide J-aggregates: from delocalized collective to localized individual excitations. *Nanoscale*, **2012**, 4, 218-23	7.7	22
26	Biosupramolecular Nanowires from Chlorophyll Dyes with Exceptional Charge-Transport Properties. *Angewandte Chemie*, **2012**, 124, 6484-6488	3.6	13
25	Biosupramolecular nanowires from chlorophyll dyes with exceptional charge-transport properties. *Angewandte Chemie - International Edition*, **2012**, 51, 6378-82	16.4	83
24	Chiral J-aggregates of atropo-enantiomeric perylene bisimides and their self-sorting behavior. *Chemistry - A European Journal*, **2012**, 18, 7060-70	4.8	64
23	Assembly of DNA triangles mediated by perylene bisimide caps. *Chemistry - A European Journal*, **2011**, 17, 6683-8	4.8	26

22	Impact of core chirality on mesophase properties of perylene bisimides. *Journal of Materials Chemistry*, **2011**, 21, 7201		21
21	Self-assembly and semiconductivity of an oligothiophene supergelator. *Beilstein Journal of Organic Chemistry*, **2010**, 6, 1070-8	2.5	39
20	Perylene bisimide macrocycles and their self-assembly on HOPG surfaces. *Chemical Communications* , **2010**, 46, 8350-2	5.8	18
19	Spermine-functionalized perylene bisimide dyes--highly fluorescent bola-amphiphiles in water. *Chemistry - A European Journal*, **2010**, 16, 3372-82	4.8	66
18	DABCO-mediated self-assembly of zinc porphyrin-perylene bisimide monodisperse multichromophoric nanoparticles. *Chemistry - A European Journal*, **2010**, 16, 2386-90	4.8	10
17	Fluorescent J-aggregates of core-substituted perylene bisimides: studies on structure-property relationship, nucleation-elongation mechanism, and sergeants-and-soldiers principle. *Journal of the American Chemical Society*, **2009**, 131, 6719-32	16.4	292
16	Self-assembly and layer-by-layer deposition of metallosupramolecular perylene bisimide polymers. *Journal of Materials Chemistry*, **2009**, 19, 6816		42
15	Unconventional hydrogen-bond-directed hierarchical co-assembly between perylene bisimide and azobenzene-functionalized melamine. *Organic and Biomolecular Chemistry*, **2009**, 7, 3926-9	3.9	33
14	Step-wise self-assembly of a small molecule with two orthogonal binding interactions leads to single stranded linear polymers in DMSO. *Chemical Communications*, **2009**, 698-700	5.8	57
13	A new type of soft vesicle-forming molecule: an amino acid derived guanidiniocarbonyl pyrrole carboxylate zwitterion. *Organic Letters*, **2008**, 10, 1469-72	6.2	48
12	Hierarchical self-assembly of cyclic dye arrays into two-dimensional honeycomb nanonetworks. *Small*, **2008**, 4, 2158-61	11	26
11	Control of H- and J-type pi stacking by peripheral alkyl chains and self-sorting phenomena in perylene bisimide homo- and heteroaggregates. *Chemistry - A European Journal*, **2008**, 14, 11343-57	4.8	370
10	A Black Perylene Bisimide Super Gelator with an Unexpected J-Type Absorption Band. *Advanced Materials*, **2008**, 20, 1695-1698	24	161
9	Photoluminescence and conductivity of self-assembled pi-pi stacks of perylene bisimide dyes. *Chemistry - A European Journal*, **2007**, 13, 436-49	4.8	517
8	Supramolecular construction of fluorescent J-aggregates based on hydrogen-bonded perylene dyes. *Angewandte Chemie - International Edition*, **2007**, 46, 5541-4	16.4	403
7	Supramolecular Construction of Fluorescent J-Aggregates Based on Hydrogen-Bonded Perylene Dyes. *Angewandte Chemie*, **2007**, 119, 5637-5640	3.6	123
6	Rigid-rod metallosupramolecular polymers of dendronized diazadibenzoperylene dyes. *Angewandte Chemie - International Edition*, **2006**, 45, 1939-42	16.4	44
5	Rigid-Rod Metallosupramolecular Polymers of Dendronized Diazadibenzoperylene Dyes. *Angewandte Chemie*, **2006**, 118, 1973-1976	3.6	14

4	Functional organogels from highly efficient organogelator based on perylene bisimide semiconductor. *Chemical Communications*, **2006**, 3871-3	5.8	144
3	One-dimensional luminescent nanoaggregates of perylene bisimides. *Chemical Communications*, **2006**, 1188-90	5.8	193
2	Preparation and characterization of regioisomerically pure 1,7-disubstituted perylene bisimide dyes. *Journal of Organic Chemistry*, **2004**, 69, 7933-9	4.2	291
1	Waste-free and facile solid-state protection of diamines, anthranilic acid, diols, and polyols with phenylboronic acid. *Chemistry - A European Journal*, **2003**, 9, 4156-61	4.8	111