

Milan Balaz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

2,838
citations

27
h-index

53
g-index

55
ext. papers

3,059
ext. citations

7.4
avg, IF

4.68
L-index

#	Paper	IF	Citations
54	The effect of molecular isomerism on the induced circular dichroism of cadmium sulfide quantum dots. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 17483-17495	7.1	0
53	Apple juice and red wine induced mirror-image circular dichroism in quantum dots. <i>Chirality</i> , 2021 ,	2.1	1
52	Functional Nanoassemblies with Mirror-Image Chiroptical Properties Templated by a Single Homochiral DNA Strand. <i>Chemistry of Materials</i> , 2020 , 32, 2272-2281	9.6	5
51	Structure and Electronic Circular Dichroism of Chiral Porphyrins and Chiral Porphyrin Dimers. <i>Handbook of Porphyrin Science</i> , 2019 , 205-284	0.3	
50	Effect of macromolecular crowding on the conformational behaviour of a porphyrin rotor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 369, 115-118	4.7	2
49	Tuning the Sensitivity of Fluorescent Porphyrin Dimers to Viscosity and Temperature. <i>Chemistry - A European Journal</i> , 2017 , 23, 11001-11010	4.8	25
48	CdSe Quantum Dots Functionalized with Chiral, Thiol-Free Carboxylic Acids: Unraveling Structural Requirements for Ligand-Induced Chirality. <i>ACS Nano</i> , 2017 , 11, 9846-9853	16.7	41
47	Chiral multichromophoric supramolecular nanostructures assembled by single stranded DNA and RNA templates. <i>Coordination Chemistry Reviews</i> , 2017 , 349, 66-83	23.2	17
46	Mechanothermally induced conformational switch of a porphyrin dimer in a polymer film. <i>Chemical Communications</i> , 2016 , 52, 9510-3	5.8	18
45	Chirality Inversion of CdSe and CdS Quantum Dots without Changing the Stereochemistry of the Capping Ligand. <i>ACS Nano</i> , 2016 , 10, 3809-15	16.7	69
44	Templated Porphyrin Assemblies Using Bio-Inspired Scaffolds [Covalent and Non-Covalent Approaches 2016 , 31-128		
43	Dual mode quantitative imaging of microscopic viscosity using a conjugated porphyrin dimer. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7548-54	3.6	35
42	Transition metal induced switch of fluorescence and absorption response of a Zn(II)porphyrinDNA conjugate to cysteine derivatives. <i>RSC Advances</i> , 2015 , 5, 15916-15922	3.7	5
41	Unravelling the effect of temperature on viscosity-sensitive fluorescent molecular rotors. <i>Chemical Science</i> , 2015 , 6, 5773-5778	9.4	73
40	Conformational preference of a porphyrin rotor in confined environments. <i>RSC Advances</i> , 2014 , 4, 705-708		8
39	Chiroptical properties, binding affinity, and photostability of a conjugated zinc porphyrin dimer complexed with left-handed Z-DNA and right-handed B-DNA. <i>Dalton Transactions</i> , 2014 , 43, 563-7	4.3	10
38	Supramolecular ssDNA templated porphyrin and metalloporphyrin nanoassemblies with tunable helicity. <i>Chemistry - A European Journal</i> , 2014 , 20, 1878-92	4.8	26

37	Achiral CdSe quantum dots exhibit optical activity in the visible region upon post-synthetic ligand exchange with D- or L-cysteine. <i>Chemical Communications</i> , 2013 , 49, 1844-6	5.8	72
36	Chiroptical properties of anionic and cationic porphyrins and metalloporphyrins in complex with left-handed Z-DNA and right-handed B-DNA. <i>Journal of Inorganic Biochemistry</i> , 2013 , 127, 1-6	4.2	29
35	Ligand induced circular dichroism and circularly polarized luminescence in CdSe quantum dots. <i>ACS Nano</i> , 2013 , 7, 11094-102	16.7	185
34	Effect of ionic liquids on the conformation of a porphyrin-based viscometer. <i>RSC Advances</i> , 2013 , 3, 18300-7	3.7	22
33	Formation and helicity control of ssDNA templated porphyrin nanoassemblies. <i>Chemical Communications</i> , 2013 , 49, 1020-2	5.8	32
32	Highly sensitive and selective spectroscopic detection of mercury(II) in water by using pyridylporphyrin-DNA conjugates. <i>Chemistry - A European Journal</i> , 2013 , 19, 2515-22	4.8	33
31	Sequence and linker dependent chiral dimerization of DNA-porphyrin conjugates. <i>Tetrahedron</i> , 2012 , 68, 2093-2099	2.4	15
30	Sulfonated Ni(II)porphyrin improves the detection of Z-DNA in condensed and non-condensed BZB DNA sequences. <i>Journal of Inorganic Biochemistry</i> , 2012 , 110, 18-20	4.2	9
29	Porphyrin-DNA conjugates: porphyrin induced adenine-guanine homoduplex stabilization and interdplex assemblies. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 5533-40	3.9	26
28	Chiroptical detection of condensed nickel(II)-Z-DNA in the presence of the B-DNA via porphyrin exciton coupled circular dichroism. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 10182-8	3.4	25
27	Z-DNA recognition in B-Z-B sequences by a cationic zinc porphyrin. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 3104-9	4.5	25
26	3,3'-diethylthiatricarbocyanine iodide: a highly sensitive chiroptical reporter of DNA helicity and sequence. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 8052-62	6.3	8
25	Recognition of left-handed Z-DNA of short unmodified oligonucleotides under physiological ionic strength conditions. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 397, 329-32	3.4	14
24	Role of environmental factors on the structure and spectroscopic response of 5VDNA-porphyrin conjugates caused by changes in the porphyrin-porphyrin interactions. <i>Chemistry - A European Journal</i> , 2009 , 15, 11853-66	4.8	66
23	Imaging intracellular viscosity of a single cell during photoinduced cell death. <i>Nature Chemistry</i> , 2009 , 1, 69-73	17.6	448
22	Interactions of a tetraanionic porphyrin with DNA: from a Z-DNA sensor to a versatile supramolecular device. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2046-7	16.4	111
21	Intramolecular rotation in a porphyrin dimer controls singlet oxygen production. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7948-9	16.4	60
20	Synthesis of hydrophilic conjugated porphyrin dimers for one-photon and two-photon photodynamic therapy at NIR wavelengths. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 874-88	3.9	115

19	One- and two-photon activated phototoxicity of conjugated porphyrin dimers with high two-photon absorption cross sections. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 897-904	3.9	78
18	Photophysical properties and intracellular imaging of water-soluble porphyrin dimers for two-photon excited photodynamic therapy. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 889-96	3.9	123
17	Blood-vessel closure using photosensitizers engineered for two-photon excitation. <i>Nature Photonics</i> , 2008 , 2, 420-424	33.9	318
16	Synthesis and characterization of water-soluble free-base, zinc and copper porphyrin-oligonucleotide conjugates. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 6544-51	3.4	36
15	Porphyrins as spectroscopic sensors for conformational studies of DNA. <i>Pure and Applied Chemistry</i> , 2007 , 79, 801-809	2.1	49
14	Determination of the triplet state energies of a series of conjugated porphyrin oligomers. <i>Photochemical and Photobiological Sciences</i> , 2007 , 6, 675-82	4.2	40
13	Tetraarylporphyrin as a selective molecular cap for non-Watson-Crick guanine-adenine base-pair sequences. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 3530-3	16.4	29
12	Tetraarylporphyrin as a Selective Molecular Cap for Non-Watson-Crick Guanine-Adenine Base-Pair Sequences. <i>Angewandte Chemie</i> , 2006 , 118, 3610-3613	3.6	6
11	Porphyrins conjugated to DNA as CD reporters of the salt-induced B to Z-DNA transition. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 1865-7	3.9	43
10	Racemic single-walled carbon nanotubes exhibit circular dichroism when wrapped with DNA. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9004-5	16.4	118
9	A Mild Stereo- and Enantiospecific Conversion of 2,3-Diaryl-Substituted Oxiranes into 2,2-Dimethyl-1,3-Dioxolanes by an Acetone/Amberlyst 15 System. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 3007-3011	3.2	16
8	5VPorphyrin-oligonucleotide conjugates: neutral porphyrin-DNA interactions. <i>Organic Letters</i> , 2005 , 7, 5613-6	6.2	43
7	Synthesis and circular dichroism of tetraarylporphyrin-oligonucleotide conjugates. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4172-3	16.4	85
6	Porphyrin substituted phosphoramidites: new building blocks for porphyrin-oligonucleotide syntheses. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 2413-21	3.4	54
5	A cationic zinc porphyrin as a chiroptical probe for Z-DNA. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4006-9	16.4	107
4	A Cationic Zinc Porphyrin as a Chiroptical Probe for Z-DNA. <i>Angewandte Chemie</i> , 2005 , 117, 4074-4077	3.6	27
3	Diastereoreactivity of a Chiral Oxathiane Derived from 5-Hydroxy-1-tetralone. <i>European Journal of Organic Chemistry</i> , 2003 , 2003, 337-345	3.2	7
2	New 1,3-oxathianes derived from myrtenal: synthesis and reactivity. <i>Journal of Organic Chemistry</i> , 2003 , 68, 6619-26	4.2	10

- 1 A new chiral oxathiane: synthesis, resolution and absolute configuration determination by vibrational circular dichroism. *Tetrahedron: Asymmetry*, **2001**, 12, 2605-2611