Milan Balaz

List of Publications by Year
in descending order

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53 papers	3,269 citations	172443 29 h-index	175241 52 g-index
55 all docs	55 docs citations	55 times ranked	4146 citing authors

#	Article	IF	Citations
1	Imaging intracellular viscosity of a single cell during photoinduced cell death. Nature Chemistry, 2009, 1, 69-73.	13.6	544
2	Blood-vessel closure using photosensitizers engineered for two-photon excitation. Nature Photonics, 2008, 2, 420-424.	31.4	355
3	Ligand Induced Circular Dichroism and Circularly Polarized Luminescence in CdSe Quantum Dots. ACS Nano, 2013, 7, 11094-11102.	14.6	245
4	Photophysical properties and intracellular imaging of water-soluble porphyrin dimers for two-photon excited photodynamic therapy. Organic and Biomolecular Chemistry, 2009, 7, 889.	2.8	130
5	Synthesis of hydrophilic conjugated porphyrin dimers for one-photon and two-photon photodynamic therapy at NIR wavelengths. Organic and Biomolecular Chemistry, 2009, 7, 874.	2.8	125
6	Racemic Single-Walled Carbon Nanotubes Exhibit Circular Dichroism When Wrapped with DNA. Journal of the American Chemical Society, 2006, 128, 9004-9005.	13.7	124
7	Interactions of a Tetraanionic Porphyrin with DNA: from a Z-DNA Sensor to a Versatile Supramolecular Device. Journal of the American Chemical Society, 2009, 131, 2046-2047.	13.7	120
8	A Cationic Zinc Porphyrin as a Chiroptical Probe for Z-DNA. Angewandte Chemie - International Edition, 2005, 44, 4006-4009.	13.8	115
9	Unravelling the effect of temperature on viscosity-sensitive fluorescent molecular rotors. Chemical Science, 2015, 6, 5773-5778.	7.4	100
10	Chirality Inversion of CdSe and CdS Quantum Dots without Changing the Stereochemistry of the Capping Ligand. ACS Nano, 2016, 10, 3809-3815.	14.6	94
11	Synthesis and Circular Dichroism of Tetraarylporphyrinâ^'Oligonucleotide Conjugates. Journal of the American Chemical Society, 2005, 127, 4172-4173.	13.7	91
12	One- and two-photon activated phototoxicity of conjugated porphyrin dimers with high two-photon absorption cross sections. Organic and Biomolecular Chemistry, 2009, 7, 897.	2.8	86
13	Achiral CdSe quantum dots exhibit optical activity in the visible region upon post-synthetic ligand exchange with d- or l-cysteine. Chemical Communications, 2013, 49, 1844.	4.1	83
14	Role of Environmental Factors on the Structure and Spectroscopic Response of 5â€²â€DNAâ€“Porphyrin Conjugates Caused by Changes in the Porphyrinâ€“Porphyrin Interactions. Chemistry - A European Journal, 2009, 15, 11853-11866.	3.3	73
15	Intramolecular Rotation in a Porphyrin Dimer Controls Singlet Oxygen Production. Journal of the American Chemical Society, 2009, 131, 7948-7949.	13.7	69
16	Porphyrin substituted phosphoramidites: new building blocks for porphyrinâ€“oligonucleotide syntheses. Bioorganic and Medicinal Chemistry, 2005, 13, 2413-2421.	3.0	57
17	CdSe Quantum Dots Functionalized with Chiral, Thiol-Free Carboxylic Acids: Unraveling Structural Requirements for Ligand-Induced Chirality. ACS Nano, 2017, 11, 9846-9853.	14.6	55
18	Porphyrins as spectroscopic sensors for conformational studies of DNA. Pure and Applied Chemistry, 2007, 79, 801-809.	1.9	51

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19	5â€²-Porphyrinâ^'Oligonucleotide Conjugates:â€‰ Neutral Porphyrinâ^'DNA Interactionsâ€. Organic Letters, 2005, 7, 5613-5616.	4.6	45
20	Porphyrins conjugated to DNA as CD reporters of the salt-induced B to Z-DNA transition,. Organic and Biomolecular Chemistry, 2006, 4, 1865.	2.8	44
21	Determination of the triplet state energies of a series of conjugated porphyrin oligomers. Photochemical and Photobiological Sciences, 2007, 6, 675.	2.9	44
22	Dual mode quantitative imaging of microscopic viscosity using a conjugated porphyrin dimer. Physical Chemistry Chemical Physics, 2015, 17, 7548-7554.	2.8	43
23	Synthesis and characterization of water-soluble free-base, zinc and copper porphyrinâ€“oligonucleotide conjugates. Bioorganic and Medicinal Chemistry, 2008, 16, 6544-6551.	3.0	39
24	Formation and helicity control of ssDNA templated porphyrin nanoassemblies. Chemical Communications, 2013, 49, 1020-1022.	4.1	36
25	Highly Sensitive and Selective Spectroscopic Detection of Mercury(II) in Water by Using Pyridylporphyrinâ€“DNA Conjugates. Chemistry - A European Journal, 2013, 19, 2515-2522.	3.3	34
26	Tuning the Sensitivity of Fluorescent Porphyrin Dimers to Viscosity and Temperature. Chemistry - A European Journal, 2017, 23, 11001-11010.	3.3	34
27	Supramolecular ssDNA Templated Porphyrin and Metalloporphyrin Nanoassemblies with Tunable Helicity. Chemistry - A European Journal, 2014, 20, 1878-1892.	3.3	33
28	Tetraarylporphyrin as a Selective Molecular Cap for Non-Watsonâ€“Crick Guanineâ€“Adenine Base-Pair Sequences. Angewandte Chemie - International Edition, 2006, 45, 3530-3533.	13.8	31
29	Chiroptical properties of anionic and cationic porphyrins and metalloporphyrins in complex with left-handed Z-DNA and right-handed B-DNA. Journal of Inorganic Biochemistry, 2013, 127, 1-6.	3.5	31
30	Porphyrinâ€“DNA conjugates: porphyrin induced adenineâ€“guanine homoduplex stabilization and interduplex assemblies. Organic and Biomolecular Chemistry, 2012, 10, 5533.	2.8	28
31	Chiroptical Detection of Condensed Nickel(II)-Z-DNA in the Presence of the B-DNA Via Porphyrin Exciton Coupled Circular Dichroism. Journal of Physical Chemistry B, 2011, 115, 10182-10188.	2.6	26
32	Zâ€ÐNA Recognition in Bâ€Zâ€B Sequences by a Cationic Zinc Porphyrin. Chemistry - an Asian Journal, 2011, 6, 3104-3109.	3.3	26
33	Chiral multichromophoric supramolecular nanostructures assembled by single stranded DNA and RNA templates. Coordination Chemistry Reviews, 2017, 349, 66-83.	18.8	26
34	A new chiral oxathiane: synthesis, resolution and absolute configuration determination by vibrational circular dichroism. Tetrahedron: Asymmetry, 2001, 12, 2605-2611.	1.8	22
35	Effect of ionic liquids on the conformation of a porphyrin-based viscometer. RSC Advances, 2013, 3, 18300.	3.6	22
36	Mechanothermally induced conformational switch of a porphyrin dimer in a polymer film. Chemical Communications, 2016, 52, 9510-9513.	4.1	20

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37	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. European Journal of Organic Chemistry, 2006, 2006, 3007-3011.	2.4	19
38	Recognition of left-handed Z-DNA of short unmodified oligonucleotides under physiological ionic strength conditions. Biochemical and Biophysical Research Communications, 2010, 397, 329-332.	2.1	15
39	Sequence and linker dependent chiral dimerization of DNAâ€“porphyrin conjugates. Tetrahedron, 2012, 68, 2093-2099.	1.9	15
40	New 1,3-Oxathianes Derived from Myrtenal:Â Synthesis and Reactivity. Journal of Organic Chemistry, 2003, 68, 6619-6626.	3.2	13
41	Chiroptical properties, binding affinity, and photostability of a conjugated zinc porphyrin dimer complexed with left-handed Z-DNA and right-handed B-DNA. Dalton Transactions, 2014, 43, 563-567.	3.3	11
42	Functional Nanoassemblies with Mirror-Image Chiroptical Properties Templated by a Single Homochiral DNA Strand. Chemistry of Materials, 2020, 32, 2272-2281.	6.7	10
43	Diastereoreactivity of a Chiral Oxathiane Derived from 5-Hydroxy-1-tetralone. European Journal of Organic Chemistry, 2003, 2003, 337-345.	2.4	9
44	Sulfonated Ni(II)porphyrin improves the detection of Z-DNA in condensed and non-condensed BZB DNA sequences. Journal of Inorganic Biochemistry, 2012, 110, 18-20.	3.5	9
45	3,3â€²-Diethylthiatricarbocyanine Iodide: A Highly Sensitive Chiroptical Reporter of DNA Helicity and Sequence. International Journal of Molecular Sciences, 2011, 12, 8052-8062.	4.1	8
46	Conformational preference of a porphyrin rotor in confined environments. RSC Advances, 2014, 4, 705-708.	3.6	8
47	Transition metal induced switch of fluorescence and absorption response of a Zn(<scp>ii</scp>)porphyrinâ€“DNA conjugate to cysteine derivatives. RSC Advances, 2015, 5, 15916-15922.	3.6	6
48	The effect of molecular isomerism on the induced circular dichroism of cadmium sulfide quantum dots. Journal of Materials Chemistry C, 2021, 9, 17483-17495.	5.5	5
49	Apple juice and red wine induced mirrorâ€image circular dichroism in quantum dots. Chirality, 2021, , .	2.6	3
50	Effect of macromolecular crowding on the conformational behaviour of a porphyrin rotor. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 369, 115-118.	3.9	2
51	Templated Porphyrin Assemblies Using Bio-Inspired Scaffolds â€" Covalent and Non-Covalent Approaches. , 2016, , 31-128.		0
52	Frontispiece: Tuning the Sensitivity of Fluorescent Porphyrin Dimers to Viscosity and Temperature. Chemistry - A European Journal, 2017, 23, .	3.3	0
53	Structure and Electronic Circular Dichroism of Chiral Porphyrins and Chiral Porphyrin Dimers. Handbook of Porphyrin Science, 2019, , 205-284.	0.8	0