Bernard Mark Heron

List of Publications by Year
in descending order

88	1,357	331538	414303
papers	citations	21 h-index	32 g-index

101	101	101	1143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Theoretical study on the light harvesting efficiency of zinc porphyrin sensitizers for DSSCs. RSC Advances, 2014, 4, 26621-26634.	1.7	119
2	Negatively photochromic organic compounds: Exploring the dark side. Dyes and Pigments, 2018, 149, 92-121.	2.0	111
3	Tuning the color switching of naphthopyrans via the control of polymeric architectures. Journal of Materials Chemistry, 2007, 17, 1885-1893.	6.7	69
4	Photochromic naphthopyrans. , 2006, , 85-135.		48
5	Optical Communication among Oscillatory Reactions and Photoâ€Excitable Systems: UV and Visible Radiation Can Synchronize Artificial Neuron Models. Angewandte Chemie - International Edition, 2017, 56, 7535-7540.	7.2	43
6	Synthesis and photochromic properties of substituted 3H-naphtho[2,1-b]pyrans. Tetrahedron, 2005, 61, 463-471.	1.0	39
7	Photochromic and luminescent compounds as artificial neuron models. Dyes and Pigments, 2018, 156, 149-159.	2.0	37
8	Extending human perception of electromagnetic radiation to the UV region through biologically inspired photochromic fuzzy logic (BIPFUL) systems. Chemical Communications, 2016, 52, 1474-1477.	2.2	36
9	The synthesis and electronic absorption spectra of 3-phenyl-3(4-pyrrolidino-2-substituted) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2006, 62, 737-745.	1.0	35
10	Intrinsically thermochromic fluorans. Chemical Communications, 2012, 48, 750-752.	2.2	35
11	Can elongation of the Ï€-system in triarylamine derived sensitizers with either benzothiadiazole and/or ortho-fluorophenyl moieties enrich their light harvesting efficiency? â€“ a theoretical study. RSC Advances, 2015, 5, 3978-3998.	1.7	32
12	Ring contraction during the 6Ï€-electrocyclisation of naphthopyran valence tautomers. Organic and Biomolecular Chemistry, 2008, 6, 3096.	1.5	31
13	Control of the Fading Properties of Photochromic 3,3-Diaryl-3H-naphtho[2,1-b]pyrans. Heterocycles, 2003, 60, 843.	0.4	29
14	Synthesis and spectroscopic properties of some merocyanine dyes. Dyes and Pigments, 2001, 49, 65-74.	2.0	28
15	Synthesis and Photochromic Properties of Methoxy Substituted 2,2-Diaryl-2H-naphtho[1,2-b]pyrans. Heterocycles, 2004, 63, 567.	0.4	25
16	Reductive alkylation of aminofluorans: A simple route to intrinsically thermochromic fluorans. Dyes and Pigments, 2013, 99, 432-439.	2.0	25
17	Processing Binary and Fuzzy Logic by Chaotic Time Series Generated by a Hydrodynamic Photochemical Oscillator. ChemPhysChem, 2017, 18, 1831-1841.	1.0	25
18	Synthesis and photochromic properties of naphthopyrans. Progress in Heterocyclic Chemistry, 2005, 17, 33-62.	0.5	24

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19	Synthesis of 3-alkenyl-2-arylchromones and 2,3-dialkenylchromones via acid-catalysed retro-Michael ring opening of 3-acylchroman-4-ones. Tetrahedron Letters, 2005, 46, 5515-5519.	0.7	23
20	Expedient syntheses of the rotenoid and thiorotenoid systems. Journal of the Chemical Society Perkin Transactions 1, 1994, , 653.	0.9	22
21	Vibrational spectra and static vibrational contribution to first hyperpolarizability of naphthopyransâ€"A combined experimental and DFT study. Vibrational Spectroscopy, 2013, 69, 65-83.	1.2	22
22	The first structural and spectroscopic characterisation of a ring-opened form of a 2H-naphtho[1,2-b]pyran: a novel photomerocyanine. Chemical Communications, 2014, 50, 7900.	2.2	21
23	A new reaction of Î±-chloro-Î±-chlorosulfenyl ketones: facile syntheses of 3,3-dichloro- and 3-chloro-chroman-4-ones and thiochroman-4-ones. Tetrahedron, 1994, 50, 5245-5254.	1.0	20
24	The oxidative ring expansion of spiro-annulated chroman-4-ones: Syntheses of the rotenoid core and related benzoxanthones. Tetrahedron Letters, 1998, 39, 881-884.	0.7	20
25	The influence of a 1,1-diarylvinyl moiety on the photochromism of naphthopyrans. Organic and Biomolecular Chemistry, 2010, 8, 4874.	1.5	19
26	Synthesis of the 5-thiorotenoid system from thiochroman-3-one. Journal of the Chemical Society Perkin Transactions 1, 1992, , 3015.	0.9	16
27	A facile route to pyrroles, isoindoles and hetero fused analogues. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 2799-2808.	1.3	16
28	Synthesis and Photochromism of Novel Pyridyl-Substituted Naphthopyrans. Journal of Organic Chemistry, 2020, 85, 10772-10796.	1.7	16
29	Allenes from 3-bromo-2H-1-benzopyrans. Journal of the Chemical Society Perkin Transactions 1, 1994, , 1733.	0.9	15
30	Two Stage Colour Modulation of Triarylmethine Dyes Derived from a Photochromic Naphthopyran. European Journal of Organic Chemistry, 2008, 2008, 2031-2034.	1.2	15
31	Benzopentalenonaphthalenones from the intramolecular capture of a merocyanine derived from a naphthopyran. Chemical Communications, 2010, 46, 8481.	2.2	15
32	5-Hydroxy substituted naphthofurans and naphthothiazoles as precursors of photochromic benzochromenes. Tetrahedron, 2014, 70, 9352-9358.	1.0	15
33	Discriminating between the UV-A, UV-B and UV-C regions by novel Biologically Inspired Photochromic Fuzzy Logic (BIPFUL) systems: A detailed comparative study. Dyes and Pigments, 2016, 135, 169-176.	2.0	14
34	Directed lithiation of some chroman-4-ols. Journal of the Chemical Society Perkin Transactions 1, 1994, , 1925.	0.9	12
35	Synthesis and photochromic properties of symmetrical aryl ether linked bi- and tri-naphthopyrans. Dyes and Pigments, 2008, 76, 24-34.	2.0	12
36	Palladium-catalysed amination of bromofluorans and an investigation of their thermochromic behaviour. Dyes and Pigments, 2012, 92, 524-530.	2.0	12

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37	The synthesis and properties of naphthopyranâ€“ boradiazaindacene conjugates. Dyes and Pigments, 2012, 94, 175-182.	2.0	12
38	Spectroscopic studies (FT-IR, FT-Raman, UVâ€“Visible), normal co-ordinate analysis, first-order hyperpolarizability and HOMO, LUMO studies of 3,4-dichlorobenzophenone by using Density Functional Methods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 151, 644-654.	2.0	11
39	Synthesis of some thiochromeno[4,3-c]- and [3,4-c]-pyrazoles. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 2930-2938.	1.3	10
40	Synthesis and Characterization of Co-polymers Based on Methyl Methacrylate and 2-Hexyl Acrylate Containing Naphthopyrans for a Light-Sensitive Contact Lens. Journal of Biomaterials Science, Polymer Edition, 2011, 22, 139-152.	1.9	10
41	The Remarkable Hyperchromicity of Ketohydrazone Dyes and Pigment Lakes Derived from 4â€Morpholinoâ€2â€naphthol. European Journal of Organic Chemistry, 2013, 2013, 8097-8107.	1.2	10
42	A contribution to neuromorphic engineering: neuromodulation implemented through photochromic compounds maintained out of equilibrium by UVâ€“visible radiation. Rendiconti Lincei, 2020, 31, 39-52.	1.0	10
43	Reactions of some 2H-Chromenes and 2H-Thiochromenes with triazolinediones. Tetrahedron, 1995, 51, 13277-13290.	1.0	9
44	Oxidation and ring cleavage reactions of 3-benzhydrylchromones. Generation of triarylmethine cations from methylidenechroman-4-ones and benzopyrano[4,3-c]pyrazoles. Tetrahedron, 2006, 62, 10945-10953.	1.0	9
45	The synthesis and properties of vinyl substituted naphthopyrans and their styrene copolymers. Dyes and Pigments, 2012, 95, 408-420.	2.0	9
46	Photochromic bi-naphthopyrans. Dyes and Pigments, 2015, 113, 239-250.	2.0	9
47	Expedient synthesis of highly substituted 3,4-dihydro-1,2-oxathiine 2,2-dioxides and 1,2-oxathiine 2,2-dioxides: revisiting sulfene additions to enaminoketones. Organic and Biomolecular Chemistry, 2019, 17, 9585-9604.	1.5	9
48	Synthesis and photochromic properties of spiro[naphthopyran-7â€²H-benzocyclohepta-5â€²,8â€²-dienes]. Dyes and Pigments, 2012, 95, 62-68.	2.0	8
49	An intramolecular, Pd-mediated Î±-arylation route to 4-aryl-2-naphthols. Tetrahedron Letters, 2015, 56, 4840-4842.	0.7	8
50	The intramolecular capture of thermally generated merocyanine dyes derived from naphthopyrans: Photochromism of 5-(diarylhydroxymethyl)-2H-naphtho[1,2-b]pyrans. Dyes and Pigments, 2012, 92, 995-1004.	2.0	7
51	Influence of a local electric field on the light harvesting efficiency of a cyclopentadithiophene-bridged D-A-Ï€-A indoline dye on pure and N-doped TiO2 surfaces. Dyes and Pigments, 2017, 141, 501-511.	2.0	7
52	CONJUGATE ADDITION OF A PHOSPHORUS YLIDE TO 3-CYANOCHROMONE. Phosphorus, Sulfur and Silicon and the Related Elements, 2000, 166, 99-109.	0.8	6
53	Six-membered ring systems: with O and/or S atoms. Progress in Heterocyclic Chemistry, 2005, , 362-388.	0.5	6
54	Vibrational assignment of the spectral data and thermodynamic properties of 2-chloro-4-fluorobenzophenone using DFT quantum chemical calculations. Vibrational Spectroscopy, 2011, 57, 35-35.	1.2	6

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55	Cationic merocyanine dyes by photomodulation of [4-(naphthopyran-3-yl)phenyl]methines. Dyes and Pigments, 2013, 97, 118-123.	2.0	6
56	Synthesis and photochromism of some mono and bis (thienyl) substituted oxathiine 2,2-dioxides. Organic and Biomolecular Chemistry, 2019, 17, 9578-9584.	1.5	6
57	Base-Mediated Ring-Contraction of Pyran Systems Promoted by Palladium and Phase-Transfer Catalysis. Journal of Organic Chemistry, 2020, 85, 952-966.	1.7	6
58	Chapter 6.4 Six-membered ring systems: With O and/or S atoms. Progress in Heterocyclic Chemistry, 1995, 7, 268-293.	0.5	5
59	Six-Membered Ring Systems: With O and/or S Atoms. Progress in Heterocyclic Chemistry, 2001, 13, 317-339.	0.5	5
60	Chapter 6.4 Six-membered ring systems: With O and/or S atoms. Progress in Heterocyclic Chemistry, 2002, , 332-355.	0.5	5
61	Chapter 6.4 Six-membered ring systems: With O and/or S atoms. Progress in Heterocyclic Chemistry, 2003, , 360-384.	0.5	5
62	Chapter 6.4 (2006): Six-membered ring systems: with O and/or S atoms. Progress in Heterocyclic Chemistry, 2009, , 365-398.	0.5	5
63	The synthesis and photochromism of a 2,2-diaryl-6-styryl-2H-[1]benzopyran: Unexpected palladium-mediated ring-contraction of a 6-bromo-2,2-diaryl-2H-[1]benzopyran. Dyes and Pigments, 2012, 92, 825-830.	2.0	5
64	Chapter 6.4 Six-Membered Ring Systems: With O and/or S Atoms. Progress in Heterocyclic Chemistry, 1999, , 299-318.	0.5	4
65	Chapter 6.4 Six-membered ring systems: With O and/or S atoms. Progress in Heterocyclic Chemistry, 2005, , 405-430.	0.5	4
66	Six-Membered Ring Systems: With O and/or S Atoms. Progress in Heterocyclic Chemistry, 2007, , 376-401.	0.5	4
67	Chapter 6.4 (2007): Six-membered ring systems: with O and/or S atoms. Progress in Heterocyclic Chemistry, 2009, , 399-431.	0.5	4
68	Six-Membered Ring Systems:. Progress in Heterocyclic Chemistry, 2011, 22, 449-490.	0.5	4
69	Six-Membered Ring Systems. Progress in Heterocyclic Chemistry, 2011, , 427-463.	0.5	4
70	Chapter 6.4 Six-membered ring systems: With O and/or S atoms. Progress in Heterocyclic Chemistry, 1996, , 277-297.	0.5	3
71	Optical Communication among Oscillatory Reactions and Photoâ€Excitable Systems: UV and Visible Radiation Can Synchronize Artificial Neuron Models. Angewandte Chemie, 2017, 129, 7643-7648.	1.6	3
72	Inhibition of the photochromic behaviour of a 3,3-diphenyl-3H-pyrano[3,2-f]quinoline ligand by coordination to Ag(I) ions. Dyes and Pigments, 2020, 175, 108167.	2.0	3

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73	Quenching of the phosphorescence of thermally reversible photochromic naphthopyran Re(<scp>i</scp>) complexes initiated by either visible or ultraviolet radiation. Dalton Transactions, 2021, 50, 830-834.	1.6	3
74	Synthesis and Photochromic Properties of 2H,9H-Indeno[1,2-f]- and 3H,7H-Indeno[2,1-i]-naphtho[2,1-b]pyrans. Molecular Crystals and Liquid Crystals, 2005, 430, 167-172.	0.4	2
75	Chapter 6.4: Six-Membered Ring Systems: With O and/or S Atoms. Progress in Heterocyclic Chemistry, 2009, , 455-490.	0.5	2
76	Direct formation of Î±,Î²-unsaturated dithioacetals from diarylpropynols. Tetrahedron Letters, 2011, 52, 708-710.	0.7	2
77	Hexatriene Formation from the Regiospecific Alkene Cross-Metathesis of Trans-1-(Buta-1,3-Dien-1-yl)-2-Acryloyloxynaphthalene. Journal of Chemical Research, 2011, 35, 531-535.	0.6	2
78	Synthesis, Câ€“H bond functionalisation and cycloadditions of 6-styryl-1,2-oxathiine 2,2-dioxides. Organic and Biomolecular Chemistry, 2021, 19, 6431-6446.	1.5	2
79	2,2,4,6-Tetraaryl-2H-benzo[h]chromenes: The influence of electronic communication between aryl substituents on their photochromism. Dyes and Pigments, 2022, 199, 110036.	2.0	2
80	Chapter 6.4 Six-membered ring systems: With O and/or S atoms. Progress in Heterocyclic Chemistry, 1997, , 289-317.	0.5	1
81	Chapter 6.4 Six-membered ring systems. Progress in Heterocyclic Chemistry, 1998, , 292-319.	0.5	1
82	Photochromic Naphthopyrans Containing a Latent Carbene Unit. Molecular Crystals and Liquid Crystals, 2005, 431, 357-362.	0.4	1
83	Six-Membered Ring Systems with O and/or S Atoms. ChemInform, 2003, 34, no.	0.1	0
84	Six-Membered Ring Systems with O and/or S Atoms. ChemInform, 2003, 34, no.	0.1	0
85	Six-Membered Ring Systems with O and/or S Atoms. ChemInform, 2004, 35, no.	0.1	0
86	Synthesis and Photochromic Properties of Substituted 3H-Naphtho[2,1-b]pyrans.. ChemInform, 2005, 36, no.	0.1	0
87	Synthesis of 3-Alkenyl-2-arylchromones and 2,3-Dialkenylchromones via Acid-Catalyzed Retro-Michael Ring Opening of 3-Acylchroman-4-ones.. ChemInform, 2005, 36, no.	0.1	0
88	Ketohydrazone dyes derived from 4-morpholino-2-naphthol and ortho-substituted anilines: Further examination of the hyperchromism induced by the 4-morpholino-2-naphthol moiety. Dyes and Pigments, 2021, 195, 109678.	2.0	0