Assocâ€prof James P Blinco

List of Publications by Year
in descending order

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120	3,513	109311	175241
papers	citations	35 h-index	52 g-index

128	128	128	3554
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	3D Printed Microstructures Erasable by Darkness. Advanced Functional Materials, 2023, 33, .	14.9	8
2	Sequence-independent activation of photocycloadditions using two colours of light. Chemical Science, 2022, 13, 531-535.	7.4	9
3	WellenlÃ¤ngenâ€Orthogonale Versteifung von Hydrogelâ€Netzwerken mit sichtbarem Licht. Angewandte Chemie, 2022, 134, .	2.0	4
4	Wavelengthâ€Orthogonal Stiffening of Hydrogel Networks with Visible Light. Angewandte Chemie - International Edition, 2022, 61, .	13.8	28
5	Two-colour light activated covalent bond formation. Nature Communications, 2022, 13, .	12.8	13
6	A simplified approach to thermally activated delayed fluorescence (TADF) bipolar host polymers. Polymer Chemistry, 2022, 13, 4241-4248.	3.9	5
7	Green-light induced cycloadditions. Chemical Communications, 2021, 57, 3991-3994.	4.1	15
8	UV-induced photolysis of polyurethanes. Chemical Communications, 2021, 57, 2911-2914.	4.1	18
9	Chain-Length-Dependent Photolysis of ortho-Nitrobenzyl-Centered Polymers. ACS Macro Letters, 2021, 10, 447-452.	4.8	10
10	Wavelengthâ€Gated Photochemical Synthesis of Phenalene Diimides. Angewandte Chemie - International Edition, 2021, 60, 10402-10408.	13.8	13
11	WellenlÃ¤ngengesteuerte photochemische Synthese von Phenalendiimiden. Angewandte Chemie, 2021, 133, 10491-10498.	2.0	0
12	Predicting wavelength-dependent photochemical reactivity and selectivity. Nature Communications, 2021, 12, 1691.	12.8	21
13	Laser Photodissociation Action Spectroscopy for the Wavelength-Dependent Evaluation of Photoligation Reactions. Analytical Chemistry, 2021, 93, 8091-8098.	6.5	3
14	The Missing Piece: Concentration Dependence of Donorâ€Acceptor Stenhouse Adduct (DASA) Reactivity. ChemPhotoChem, 2021, 5, 711-715.	3.0	4
15	Electrospray Ionization-Mass Spectrometry of Synthetic Polymers Functionalized with Carboxylic Acid End-Groups. Journal of the American Society for Mass Spectrometry, 2021, 32, 2123-2134.	2.8	3
16	Emissive semi-interpenetrating polymer networks for ink-jet printed multilayer OLEDs. Polymer Chemistry, 2021, 12, 5567-5573.	3.9	4
17	Action Plots in Action: In-Depth Insights into Photochemical Reactivity. Journal of the American Chemical Society, 2021, 143, 21113-21126.	13.7	60
18	Closing the textile loop: Enzymatic fibre separation and recycling of wool/polyester fabric blends. Waste Management, 2020, 102, 149-160.	7.4	83

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19	It's a Trap: Thiolâ€Michael Chemistry on a DASA Photoswitch. Chemistry - A European Journal, 2020, 26, 809-813.	3.3	20
20	It's in the Fine Print: Erasable Threeâ€Dimensional Laserâ€Printed Microâ€•and Nanostructures. Angewandte Chemie - International Edition, 2020, 59, 6330-6340.	13.8	20
21	Visible-light reversible photopolymerisation: insights via online photoflow â€“ electrospray ionisation â€“ mass spectrometry. Polymer Chemistry, 2020, 11, 6435-6440.	3.9	4
22	A printable thermally activated delayed fluorescence polymer light emitting diode. Journal of Materials Chemistry C, 2020, 8, 13001-13009.	5.5	12
23	Combining Photodeprotection and Ligation into a Dualâ€Color Gated Reaction System. Chemistry - A European Journal, 2020, 26, 16985-16989.	3.3	5
24	Two Colour Photoflow Chemistry for Macromolecular Design. Angewandte Chemie - International Edition, 2020, 59, 14143-14147.	13.8	14
25	Zweifarbiges Licht in der Durchflusssynthese fÃ¼r makromolekulares Design. Angewandte Chemie, 2020, 132, 14247-14251.	2.0	3
26	Facile Synthesis and Inâ€Depth Characterization of Polymethacrylimides with Tunable Properties. Macromolecular Rapid Communications, 2020, 41, e2000183.	3.9	0
27	Targeted and modular architectural polymers employing bioorthogonal chemistry for quantitative therapeutic delivery. Chemical Science, 2020, 11, 3268-3280.	7.4	22
28	A Methoxyamineâ€Protecting Group for Organic Radical Battery Materialsâ€”An Alternative Approach. ChemSusChem, 2020, 13, 2386-2393.	6.8	7
29	Es ist im Kleingedruckten: LÃ¶schbare dreidimensionale lasergedruckte Mikroâ€•und Nanostrukturen. Angewandte Chemie, 2020, 132, 6390-6401.	2.0	2
30	Pushing the limits of single chain compaction analysis by observing specific size reductions via high resolution mass spectrometry. Polymer Chemistry, 2020, 11, 1696-1701.	3.9	2
31	Light-induced Ligation of o-Quinodimethanes with Gated Fluorescence Self-reporting. Journal of the American Chemical Society, 2020, 142, 7744-7748.	13.7	26
32	Profluorescent nitroxide sensors for monitoring the natural aging of polymer materials. Polymer Degradation and Stability, 2020, 174, 109091.	5.8	9
33	Adaptable and Reprogrammable Surfaces. Advanced Materials, 2019, 31, e1902665.	21.0	23
34	Hybrid Photo-induced Copolymerization of Ring-Strained and Vinyl Monomers Utilizing Metal-Free Ring-Opening Metathesis Polymerization Conditions. Journal of the American Chemical Society, 2019, 141, 16605-16609.	13.7	28
35	Photo-Cross-Linkable Polymer Inks for Solution-Based OLED Fabrication. Macromolecules, 2019, 52, 9105-9113.	4.8	17
36	Tailoring the Mechanical Properties of 3D Microstructures Using Visible Light Postâ€Manufacturing. Advanced Materials, 2019, 31, e1901269.	21.0	43

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37	Lichtinduzierte orthogonale Bildung kovalenter Bindungen durch zwei WellenlÃngen. Angewandte Chemie, 2019, 131, 7548-7552.	2.0	7
38	Hyphenation of size-exclusion chromatography to mass spectrometry for precision polymer analysis â€“ a tutorial review. Polymer Chemistry, 2019, 10, 3241-3256.	3.9	17
39	Mapping the Compaction of Discrete Polymer Chains by Size Exclusion Chromatography Coupled to High-Resolution Mass Spectrometry. Macromolecules, 2019, 52, 2597-2606.	4.8	15
40	Lightâ€Controlled Orthogonal Covalent Bond Formation at Two Different Wavelengths. Angewandte Chemie - International Edition, 2019, 58, 7470-7474.	13.8	28
41	Frontispiece: Contemporary Photoligation Chemistry: The Visible Light Challenge. Chemistry - A European Journal, 2019, 25, .	3.3	0
42	Scalable Synthesis of Sequenceâ€Defined Oligomers via Photoflow Chemistry. ChemPhotoChem, 2019, 3, 225-228.	3.0	23
43	Photoresists: Access to Disparate Soft Matter Materials by Curing with Two Colors of Light (Adv.) Tj ETQq1 1 0.784314 rgBT /Overloc	21.0	0
44	Contemporary Photoligation Chemistry: The Visible Light Challenge. Chemistry - A European Journal, 2019, 25, 3700-3709.	3.3	30
45	Access to Disparate Soft Matter Materials by Curing with Two Colors of Light. Advanced Materials, 2019, 31, e1807288.	21.0	61
46	Polymer networks based on photo-caged diene dimerization. Materials Horizons, 2019, 6, 81-89.	12.2	17
47	Engineering Nitroxide Functional Surfaces Using Bioinspired Adhesion. Langmuir, 2018, 34, 3264-3274.	3.5	21
48	Direct access to biocompatible nitroxide containing polymers. Polymer Chemistry, 2018, 9, 1348-1355.	3.9	10
49	A Simple and Versatile Pathway for the Synthesis of Visible Light Photoreactive Nanoparticles. Advanced Functional Materials, 2018, 28, 1800342.	14.9	18
50	Visible Light Activation of Spinâ€Silenced Fluorescence. Chemistry - A European Journal, 2018, 24, 12246-12249.	3.3	11
51	Nitroxide radical polymers â€“ a versatile material class for high-tech applications. Polymer Chemistry, 2018, 9, 1479-1516.	3.9	123
52	New Spin on Organic Radical Batteriesâ€“An Isoindoline Nitroxide-Based High-Voltage Cathode Material. ACS Applied Materials & Interfaces, 2018, 10, 7982-7988.	8.0	71
53	Reporting pH-sensitive drug releaseviaunpaired spin fluorescence silencing. Polymer Chemistry, 2018, 9, 499-505.	3.9	5
54	Self-reporting and refoldable profluorescent single-chain nanoparticles. Chemical Science, 2018, 9, 4696-4702.	7.4	27

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55	Folding polymer chains with visible light. Chemical Communications, 2018, 54, 3476-3479.	4.1	43
56	Exploiting Î»â€Orthogonal Photoligation for Layered Surface Patterning. Chemistry - A European Journal, 2018, 24, 576-580.	3.3	25
57	Correlating In-Depth Mechanistic Understanding with Mechanical Properties of High-Temperature Resistant Cyclic Imide Copolymers. Macromolecules, 2018, 51, 8712-8720.	4.8	5
58	Dynamic Nitroxide Functional Materials. Chemistry - A European Journal, 2018, 24, 18873-18879.	3.3	6
59	Visible Light-Induced Ligation via o-Quinodimethane Thioethers. Journal of the American Chemical Society, 2018, 140, 11848-11854.	13.7	29
60	Understanding Reactivity Patterns in Lightâ€Induced Nitrile Imine Mediated Tetrazoleâ€“Ene Cycloadditions. ChemPhotoChem, 2017, 1, 159-163.	3.0	27
61	Self-Reporting Fluorescent Step-Growth RAFT Polymers Based on Nitrile Imine-Mediated Tetrazole-ene Cycloaddition Chemistry. ACS Macro Letters, 2017, 6, 229-234.	4.8	51
62	Synergic bactericidal effects of reduced graphene oxide and silver nanoparticles against Gram-positive and Gram-negative bacteria. Scientific Reports, 2017, 7, 1591.	3.3	130
63	Oxidative polymerization of catecholamines: structural access by high-resolution mass spectrometry. Polymer Chemistry, 2017, 8, 3050-3055.	3.9	20
64	Pyreneacyl sulfides as a visible light-induced versatile ligation platform. Chemical Communications, 2017, 53, 4501-4504.	4.1	29
65	Nearâ€Infrared Photoinduced Reactions Assisted by Upconverting Nanoparticles. Chemistry - A European Journal, 2017, 23, 8325-8332.	3.3	63
66	Wavelength Dependence of Light-Induced Cycloadditions. Journal of the American Chemical Society, 2017, 139, 15812-15820.	13.7	83
67	High resolution mass spectrometric access to nitroxide containing polymers. Polymer Chemistry, 2017, 8, 5269-5274.	3.9	12
68	Spin fluorescence silencing enables an efficient thermally driven self-reporting polymer release system. Polymer Chemistry, 2017, 8, 6199-6203.	3.9	15
69	Frontispiece: Nearâ€Infrared Photoinduced Reactions Assisted by Upconverting Nanoparticles. Chemistry - A European Journal, 2017, 23, .	3.3	0
70	BODIPYâ€Based Profluorescent Probes Containing Mesoâ€and Î²â€Substituted Isoindoline Nitroxides. European Journal of Organic Chemistry, 2017, 2017, 476-483.	2.4	17
71	Star polymer synthesis via Î»-orthogonal photochemistry. Chemical Communications, 2016, 52, 9426-9429.	4.1	44
72	Lichtgesteuerte Kupplungsreaktionen im nahen Infrarot mittels Aufkonvertierungsâ€Nanopartikeln. Angewandte Chemie, 2016, 128, 12382-12386.	2.0	13

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73	A Light-Activated Reaction Manifold. Journal of the American Chemical Society, 2016, 138, 7048-7054.	13.7	21
74	Selective Oxidation of Aliphatic Alcohols using Molecular Oxygen at Ambient Temperature: Mixed-Valence Vanadium Oxide Photocatalysts. ACS Catalysis, 2016, 6, 3580-3588.	11.2	76
75	Development of a Redoxâ€Responsive Polymeric Profluorescent Probe. Macromolecular Chemistry and Physics, 2016, 217, 2330-2340.	2.2	14
76	Nearâ€Infrared Photoinduced Coupling Reactions Assisted by Upconversion Nanoparticles. Angewandte Chemie - International Edition, 2016, 55, 12195-12199.	13.8	65
77	Light-active azaphenalene alkoxyamines: fast and efficient mediators of a photo-induced persistent radical effect. RSC Advances, 2016, 6, 80328-80333.	3.6	16
78	Catalyst free visible light induced cycloaddition as an avenue for polymer ligation. Chemical Communications, 2016, 52, 5928-5931.	4.1	52
79	InnenrÃ¼cktitelbild: Durch sichtbares Licht induzierte Klick-Chemie (Angew. Chem. 35/2015). Angewandte Chemie, 2015, 127, 10517-10517.	2.0	0
80	Technical Note: Preliminary investigations into the use of a functionalised polymer to reduce diffusion in Fricke gel dosimeters. Medical Physics, 2015, 42, 6798-6803.	3.0	24
81	Visibleâ€Lightâ€Induced Click Chemistry. Angewandte Chemie - International Edition, 2015, 54, 10284-10288.	13.8	62
82	Polyaromatic Profluorescent Nitroxide Probes with Enhanced Photostability. Chemistry - A European Journal, 2015, 21, 18258-18268.	3.3	20
83	A reduction of diffusion in PVA Fricke hydrogels. Journal of Physics: Conference Series, 2015, 573, 012046.	0.4	8
84	Î»â€Orthogonale Photochemie: Lichtinduzierte pericyclische Reaktionen an MakromolekÃ¼len. Angewandte Chemie, 2015, 127, 2880-2885.	2.0	21
85	Î»â€Orthogonal Pericyclic Macromolecular Photoligation. Angewandte Chemie - International Edition, 2015, 54, 2838-2843.	13.8	70
86	Modular design of profluorescent polymer sensors. Polymer Chemistry, 2015, 6, 2962-2969.	3.9	17
87	Design of Redox/Radical Sensing Molecules via Nitrile Imine-Mediated Tetrazole-ene Cycloaddition (NITEC). Journal of Organic Chemistry, 2015, 80, 8009-8017.	3.2	35
88	Photochemical Design of Stimuli-Responsive Nanoparticles Prepared by Supramolecular Hostâ€“Guest Chemistry. Macromolecules, 2015, 48, 4410-4420.	4.8	41
89	Photo-induced proton coupled electron transfer from a benzophenone â€˜antennaâ€™ to an isoindoline nitroxide. RSC Advances, 2015, 5, 95598-95603.	3.6	7
90	Chapter 3. Synthesis of Nitroxides and Alkoxyamines. RSC Polymer Chemistry Series, 2015, , 114-152.	0.2	0

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91	Spin-coated carbon. Chemical Science, 2013, 4, 3411.	7.4	20
92	Photo-Induced Macromolecular Functionalization of Cellulose via Nitroxide Spin Trapping. Biomacromolecules, 2012, 13, 1700-1705.	5.4	25
93	(Ultra)Fast Catalyst-Free Macromolecular Conjugation in Aqueous Environment at Ambient Temperature. Journal of the American Chemical Society, 2012, 134, 7274-7277.	13.7	60
94	Computational Design of Cyclic Nitroxides as Efficient Redox Mediators for Dye-Sensitized Solar Cells. Chemistry - A European Journal, 2012, 18, 7582-7593.	3.3	67
95	Photoclickable Surfaces for Profluorescent Covalent Polymer Coatings. Advanced Functional Materials, 2012, 22, 304-312.	14.9	133
96	Chain scission resists for extreme ultraviolet lithography based on high performance polysulfone-containing polymers. Journal of Materials Chemistry, 2011, 21, 5629.	6.7	36
97	Profluorescent Nitroxides as Sensitive Probes of Oxidative Change and Free Radical Reactions. Australian Journal of Chemistry, 2011, 64, 373.	0.9	99
98	Corrigendum to: A Profluorescent Azaphenalene Nitroxide for Nitroxide-Mediated Polymerization. Australian Journal of Chemistry, 2011, 64, 1539.	0.9	0
99	Photoinduced Conjugation of Dithioester- and Trithiocarbonate-Functional RAFT Polymers with Alkenes. Macromolecules, 2011, 44, 166-174.	4.8	46
100	Formation of nanoporous materials via mild retro-Dielsâ€“Alder chemistry. Polymer Chemistry, 2011, 2, 83-87.	3.9	47
101	A Profluorescent Azaphenalene Nitroxide for Nitroxide-Mediated Polymerization. Australian Journal of Chemistry, 2011, 64, 426.	0.9	4
102	The evaluation of new and isotopically labeled isoindoline nitroxides and an azaphenalene nitroxide for EPR oximetry. Journal of Magnetic Resonance, 2011, 211, 170-177.	2.1	25
103	Investigation of polypropylene degradation during melt processing using a profluorescent nitroxide probe: A laboratory-scale study. Polymer Degradation and Stability, 2011, 96, 455-461.	5.8	19
104	Dielsâ€“Alder Reactions as an Efficient Route to High Purity Cyclic Polymers. Macromolecular Rapid Communications, 2011, 32, 724-728.	3.9	87
105	Dynamic Covalent Chemistry on Surfaces Employing Highly Reactive Cyclopentadienyl Moieties. Advanced Materials, 2011, 23, 4435-4439.	21.0	42
106	Living characteristics of the free-radical ring-closing polymerization of diallyldimethylammonium chloride. European Polymer Journal, 2011, 47, 111-114.	5.4	16
107	Extreme ultraviolet (EUV) degradation of poly(olefin sulfone)s: Towards applications as EUV photoresists. Radiation Physics and Chemistry, 2011, 80, 236-241.	2.8	18
108	Polycarbonate based nonchemically amplified photoresists for extreme ultraviolet lithography. Proceedings of SPIE, 2010, , .	0.8	9

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109	Patterning of Tailored Polycarbonate Based Nonâ€Chemically Amplified Resists Using Extreme Ultraviolet Lithography. Macromolecular Rapid Communications, 2010, 31, 1449-1455.	3.9	34
110	Profluorescent nitroxides: Thermo-oxidation sensors for stabilised polypropylene. Polymer Degradation and Stability, 2010, 95, 2101-2109.	5.8	18
111	Highly efficient, stoichiometric radical exchange reactions using isoindoline profluorescent nitroxides. Polymer Chemistry, 2010, 1, 1009.	3.9	39
112	Development of polymers for non-CAR resists for EUV lithography. , 2009, , .		13
113	Profluorescent nitroxides: Sensors and stabilizers of radical-mediated oxidative damage. Polymer Degradation and Stability, 2008, 93, 1613-1618.	5.8	33
114	Electron spinâ€“lattice relaxation of nitroxyl radicals in temperature ranges that span glassy solutions to low-viscosity liquids. Journal of Magnetic Resonance, 2008, 191, 66-77.	2.1	58
115	A Novel Profluorescent Dinitroxide for Imaging Polypropylene Degradation. Macromolecules, 2008, 41, 1577-1580.	4.8	43
116	Experimental and Theoretical Studies of the Redox Potentials of Cyclic Nitroxides. Journal of Organic Chemistry, 2008, 73, 6763-6771.	3.2	130
117	Monitoring Free Radical Reactions in Degrading Polymers with a Profluorescent Nitroxide. ACS Symposium Series, 2007, , 59-69.	0.5	3
118	The First Example of an Azaphenalene Profluorescent Nitroxide. European Journal of Organic Chemistry, 2007, 2007, 4638-4641.	2.4	41
119	Impact of molecular size on electron spin relaxation rates of nitroxyl radicals in glassy solvents between 100 and 300 K. Molecular Physics, 2007, 105, 2137-2151.	1.7	67
120	The application of a novel profluorescent nitroxide to monitor thermo-oxidative degradation of polypropylene. Polymer Degradation and Stability, 2005, 89, 427-435.	5.8	60