

# Bernd Strehmel

## List of Publications by Year in descending order

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84  
papers

2,588  
citations

172457

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223800

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94  
docs citations

94  
times ranked

1738  
citing authors

#	ARTICLE	IF	CITATIONS
1	Manufacturing and photocrosslinking of a new bio-based dimethacrylate resulting in hydrophobic crosslinked films. , 2022, 1, e202100003.		6
2	Sustainable Afterglow Room-Temperature Phosphorescence Emission Materials Generated Using Natural Phenolics. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
3	Sustainable Afterglow Room-Temperature Phosphorescence Emission Materials Generated Using Natural Phenolics. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	28
4	Synthesis and photoinitiated cationic polymerization of epoxidized phenylpropanoid and $\beta$ -pinene derivatives. <i>Sustainable Chemistry and Pharmacy</i> , 2022, 29, 100766.	3.3	5
5	NIR-sensibilisierte kationische und hybride radikalische/kationische Polymerisation und Vernetzung. <i>Angewandte Chemie</i> , 2021, 133, 1486-1495.	2.0	7
6	NIR-Sensitized Cationic and Hybrid Radical/Cationic Polymerization and Crosslinking. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1465-1473.	13.8	32
7	Mediated Generation of Conjugate Acid by UV and Blue Sensitizers with Upconversion Nanoparticles at 980-nm. <i>Chemistry - A European Journal</i> , 2021, 27, 4297-4301.	3.3	11
8	Distinct Sustainable Carbon Nanodots Enable Free Radical Photopolymerization, Photo-ATRP and Photo-CuAAC Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10983-10991.	13.8	44
9	Verschiedene nachhaltige Kohlenstoffnanopunkte für die freie radikalische Photopolymerisation, die Photo-ATRP und die Photo-CuACC Chemie. <i>Angewandte Chemie</i> , 2021, 133, 11078-11087.	2.0	4
10	Abstrakt: Verschiedene nachhaltige Kohlenstoffnanopunkte für die freie radikalische Photopolymerisation, die Photo-ATRP und die Photo-CuACC Chemie ( <i>Angew. Chem.</i> 19/2021). <i>Angewandte Chemie</i> , 2021, 133, 11096-11096.	2.0	0
11	Cyanines comprising barbiturate group facilitate NIR-light assisted ATRP under anaerobic and aerobic conditions at two wavelengths using Fe(III) catalyst. <i>Journal of Polymer Science</i> , 2021, 59, 2023-2035.	3.8	10
12	Rational Selection of Cyanines to Generate Conjugate Acid and Free Radicals for Photopolymerization upon Exposure at 860-nm. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26855-26865.	13.8	25
13	Formation of highly crosslinked polymer films in the presence of bio-based epoxy by photoinitiated cationic polymerization. <i>Progress in Organic Coatings</i> , 2021, 158, 106377.	3.9	7
14	Innentitelbild: Rationale Auswahl von Cyaninen zur Erzeugung von konjugierter Säure und freien Radikalen für die Photopolymerisation durch Belichtung bei 860-nm ( <i>Angew. Chem.</i> 51/2021). <i>Angewandte Chemie</i> , 2021, 133, 26618-26618.	2.0	0
15	Kohlenstoff-Nanopunkte als Photokatalysatoren für die freie radikalische und ATRP-basierte radikalische Photopolymerisation mit blauen LEDs. <i>Angewandte Chemie</i> , 2020, 132, 3192-3197.	2.0	16
16	Carbon Dots as a Promising Green Photocatalyst for Free Radical and ATRP-Based Radical Photopolymerization with Blue LEDs. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3166-3171.	13.8	95
17	Photoinitiated polymerization of methacrylates comprising phenyl moieties. <i>Journal of Polymer Science</i> , 2020, 58, 3196-3208.	3.8	9
18	Frontispiece: NIR Light-Induced ATRP for Synthesis of Block Copolymers Comprising UV-Absorbing Moieties. <i>Chemistry - A European Journal</i> , 2020, 26, .	3.3	0

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19	NIR-Sensitized Activated Photoreaction between Cyanines and Oxime Esters: Free-Radical Photopolymerization. <i>Angewandte Chemie</i> , 2020, 132, 11537-11544.	2.0	14
20	Photophysics and photochemistry of NIR absorbers derived from cyanines: key to new technologies based on chemistry 4.0. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 415-444.	2.2	42
21	NIR-Sensitized Activated Photoreaction between Cyanines and Oxime Esters: Free-Radical Photopolymerization. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11440-11447.	13.8	47
22	NIR Light-Induced ATRP for Synthesis of Block Copolymers Comprising UV-Absorbing Moieties. <i>Chemistry - A European Journal</i> , 2020, 26, 10444-10451.	3.3	25
23	Near-IR and UV-LED Sensitized Photopolymerization with Onium Salts Comprising Anions of Different Nucleophilicities. <i>ChemPhotoChem</i> , 2019, 3, 1127-1132.	3.0	37
24	Photochemistry with Cyanines in the Near Infrared: A Step to Chemistry 4.0 Technologies. <i>Chemistry - A European Journal</i> , 2019, 25, 12855-12864.	3.3	35
25	Frontispiece: Photochemistry with Cyanines in the Near Infrared: A Step to Chemistry 4.0 Technologies. <i>Chemistry - A European Journal</i> , 2019, 25, .	3.3	0
26	Photophysics of Up-Conversion Nanoparticles: Radical Photopolymerization of Multifunctional Methacrylates Comprising Blue- and UV-Sensitive Photoinitiators. <i>ChemPhotoChem</i> , 2019, 3, 1119-1126.	3.0	20
27	Green Approach of Photoinitiated Polymerization Using Monomers Derived from Oleic Acid and Ionic Liquid. <i>ChemistrySelect</i> , 2019, 4, 10214-10218.	1.5	11
28	New High-Power LEDs Open Photochemistry for Near-Infrared-Sensitized Radical and Cationic Photopolymerization. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4400-4404.	13.8	65
29	Near-Infrared Photoinduced Copper-Catalyzed Azide-Alkyne Click Chemistry with a Cyanine Comprising a Barbiturate Group. <i>ChemPhotoChem</i> , 2019, 3, 1180-1186.	3.0	23
30	NIR LEDs and NIR lasers as feasible alternatives to replace oven processes for treatment of thermal-responsive coatings. <i>Journal of Coatings Technology Research</i> , 2019, 16, 1527-1541.	2.5	22
31	Neue Hochleistungs-LEDs ermöglichen Photochemie für die Nahinfrarot-sensibilisierte radikalische und kationische Photopolymerisation. <i>Angewandte Chemie</i> , 2019, 131, 4445-4450.	2.0	20
32	Functionalization of an alkyd resin with (meth)acrylate groups for photoinitiated polymerization. <i>Progress in Organic Coatings</i> , 2018, 125, 316-324.	3.9	14
33	Near-Infrared Sensitized Photoinduced Atom-Transfer Radical Polymerization (ATRP) with a Copper(II) Catalyst Concentration in the ppm Range. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7898-7902.	13.8	140
34	Nahinfrarot-sensibilisierte photoinduzierte ATRP mit einer Kupfer(II)-Katalysatorkonzentration im ppm-Bereich. <i>Angewandte Chemie</i> , 2018, 130, 8025-8030.	2.0	34
35	Chapter 14. NIR Light for Initiation of Photopolymerization. <i>RSC Polymer Chemistry Series</i> , 2018, , 431-478.	0.2	26
36	Photochemical Treatment of Powder Coatings and VOC-Free Coatings with NIR Lasers Exhibiting Line-Shaped Focus: Physical and Chemical Solidification. <i>ChemPhotoChem</i> , 2017, 1, 26-34.	3.0	30

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37	Upconversion Nanoparticle-Assisted Radical Polymerization at $\lambda = 974$ nm and the Generation of Acidic Cations. <i>ChemPhotoChem</i> , 2017, 1, 499-503.	3.0	45
38	Comparison between NIR and UV-Sensitized Radical and Cationic Reactivity of Iodonium Salts Comprising Anions with Different Coordination Behavior. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2017, 30, 633-638.	0.3	20
39	Advances of Near Infrared Sensitized Radical and Cationic Photopolymerization: from Graphic Industry to Traditional Coatings. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2016, 29, 111-121.	0.3	33
40	NIR-Sensitized Photopolymerization with Iodonium Salts Bearing Weak Coordinating Anions. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2016, 29, 609-615.	0.3	20
41	Photopolymerization of Functionalized Monomers Derived from Oleic Acid. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2016, 29, 123-132.	0.3	14
42	Digital Imaging of Lithographic Materials by Radical Photopolymerization and Photonic Baking with NIR Diode Lasers. <i>Chemical Engineering and Technology</i> , 2016, 39, 13-25.	1.5	39
43	Photochemical Oxidation of NIR Photosensitizers in the Presence of Radical Initiators and Their Prospective Use in Dental Applications. <i>ChemistrySelect</i> , 2016, 1, 524-532.	1.5	55
44	Integration of Gold Nanoparticles into NIR-Radiation Curable Powder Resin. <i>ChemistrySelect</i> , 2016, 1, 5574-5578.	1.5	16
45	NIR-Sensitized Photoinitiated Radical Polymerization and Proton Generation with Cyanines and LED Arrays. <i>Progress in Organic Coatings</i> , 2016, 100, 32-46.	3.9	102
46	Photogenerated lophyl radicals in 1-alkyl-3-vinylimidazolium bis(trifluoromethylsulfonyl)imides. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 714-725.	2.9	22
47	New iodonium salts in NIR sensitized radical photopolymerization of multifunctional monomers. <i>RSC Advances</i> , 2015, 5, 69915-69924.	3.6	76
48	Application of NIR-Photopolymers in the Graphic Industry: From Physical Chemistry to Lithographic Applications. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014, 228, 129-153.	2.8	55
49	Extended mechanistic aspects on photoinitiated polymerization of 1,6-hexanediol diacrylate by hexaarylbisimidazoles and heterocyclic mercapto compounds. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 789-798.	2.9	16
50	Investigation of Molecular Solvents and Ionic Liquids with a Dual Probe. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014, 228, .	2.8	1
51	Temperature Dependence of Interactions Between Stable Piperidine-Cyloxy Derivatives and a Semicrystalline Ionic Liquid. <i>ChemPhysChem</i> , 2010, 11, 2182-2190.	2.1	18
52	Recombination of Photogenerated Lophyl Radicals in Imidazolium-Based Ionic Liquids. <i>ChemPhysChem</i> , 2009, 10, 3112-3118.	2.1	24
53	Temperature Dependence of Interactions between Stable Piperidine-Cyloxy Derivatives and an Ionic Liquid. <i>ChemPhysChem</i> , 2008, 9, 1294-1302.	2.1	23
54	One- and Two-Photon Photochemistry and Photophysics of Poly(arylenevinylene)s Containing a Biphenyl Moiety. <i>ChemPhysChem</i> , 2005, 6, 267-276.	2.1	11

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55	Two-Photon Absorption of Bis[4-(N,N-diphenylamino)phenylethynyl]arenes. <i>ChemPhysChem</i> , 2005, 6, 893-896.	2.1	30
56	The Influence of $\pi$ and $\sigma$ Acceptors on Two-Photon Absorption and Solvatochromism of Dipolar and Quadrupolar Unsaturated Organic Compounds. <i>ChemPhysChem</i> , 2003, 4, 249-259.	2.1	198
57	Fluorinated Distyrylbenzene Containing Copolymers for Photoinduced Formation of Anisotropic Materials as Photoalignment Layers for Liquid Crystals. <i>ACS Symposium Series</i> , 2003, , 482-498.	0.5	0
58	Structural concept for fluorinated Y-enynes with solvatochromic properties1This paper is dedicated to Professor Dr J. W. Neckers on the occasion of his 100th birthday.. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 942.	2.9	11
59	Ion-Induced Manipulation of Photochemical Pathways in Crown Ether Compounds Based on Fluorinated Oligophenylenevinylenes: The Border between Ultrafast Photoswitches and Photoproduced Nanomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , 2001, 1, 107-124.	0.9	11
60	Color intensity control in polymers using triarylmethane leuconitriles as color formers. <i>Tetrahedron</i> , 2001, 57, 967-974.	1.9	17
61	Fluorescence probes for investigation of epoxy systems and monitoring of crosslinking processes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 1367-1386.	2.1	55
62	Effect of Aromatic Ring Substitution on the Optical Properties, Emission Dynamics, and Solid-State Behavior of Fluorinated Oligophenylenevinylenes. <i>Journal of the American Chemical Society</i> , 1999, 121, 1226-1236.	13.7	118
63	Photochemistry and Photophysics of (1-Naphthoyl)diphenylphosphine Oxide. <i>Journal of Physical Chemistry A</i> , 1999, 103, 7757-7765.	2.5	8
64	New Intramolecular Fluorescence Probes That Monitor Photoinduced Radical and Cationic Cross-Linking. <i>Macromolecules</i> , 1999, 32, 7476-7482.	4.8	31
65	Synthesis of Polymeric Photoinitiators Containing Pendent Chromophore $\pi$ -Borate Ion Pairs: $\pi$ Photochemistry and Photopolymerization Activities1. <i>Macromolecules</i> , 1999, 32, 5203-5209.	4.8	40
66	Synthesis, Characterization, and Optical Properties of Copolymers Containing Fluorine-Substituted Distyrylbenzene and Nonconjugated Spacers. <i>Macromolecules</i> , 1999, 32, 7409-7413.	4.8	50
67	Fluorescence probes for investigation of epoxy systems and monitoring of crosslinking processes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 1367-1386.	2.1	3
68	Photophysical Properties of Fluorescence Probes. 2. A Model of Multiple Fluorescence for Stilbazolium Dyes Studied by Global Analysis and Quantum Chemical Calculations. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2232-2243.	2.6	152
69	Photophysical properties of stilbenes with imide groups. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1997, 105, 353-364.	3.9	4
70	Command surfaces, 20. Fixation of surface-assisted homogeneous alignment of nematic liquid crystals by cationic photopolymerization. <i>Macromolecular Rapid Communications</i> , 1996, 17, 545-551.	3.9	12
71	Attaching of flexible chains to novolacs on the basis of bisphenol A. <i>Journal of Applied Polymer Science</i> , 1996, 60, 1221-1229.	2.6	2
72	Photophysical properties of fluorescence probes I: dialkylamino stilbazolium dyes. <i>Journal of Biomedical Optics</i> , 1996, 1, 98.	2.6	51

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73	Characterization of photochemical-cured acrylates with calorimetric methods. , 1994, 2195, 801.		1
74	Photochemical curing of epoxies in the liquid-crystalline state. , 1994, , .		0
75	The excited states of stilbene and stilbenoid donor-acceptor dye systems. A theoretical study. Chemical Physics, 1993, 173, 525-537.	1.9	38
76	Synthesis of novolac on the basis of bisphenol A as curing agent for epoxy resins. Angewandte Makromolekulare Chemie, 1992, 200, 125-136.	0.2	5
77	Title is missing!. Angewandte Makromolekulare Chemie, 1992, 201, 49-62.	0.2	1
78	Lichtinduzierte polymer- und polymerisationsreaktionen, 44. Zur kinetik der radikalischen photopolymerisation mehrfunktioneller acrylate in polymeren bindemitteln. Die Makromolekulare Chemie, 1991, 192, 779-791.	1.1	38
79	Title is missing!. Die Makromolekulare Chemie, 1991, 192, 1981-1991.	1.1	31
80	Title is missing!. Angewandte Makromolekulare Chemie, 1990, 178, 131-142.	0.2	28
81	Lichtinitiierte polymer- und polymerisationsreaktionen, 10. Photoinduzierte zersetzung von diareniodonium- und triarensulfoniumsalzen durch kaliumtrisoxalatoferrat. Die Makromolekulare Chemie, 1983, 184, 2409-2419.	1.1	6
82	Rational Selection of Cyanines to Generate Conjugate Acid and Free Radicals for Photopolymerization upon Exposure at 860nm. Angewandte Chemie, 0, , .	2.0	2
83	The NIR-sensitized cationic photopolymerization of oxetanes in combination with epoxide and acrylate monomers. Polymer Chemistry, 0, , .	3.9	9
84	Photochemistry in Germany. ChemPhotoChem, 0, , .	3.0	0