

Neil R Branda

List of Publications by Year in descending order

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98
papers

7,291
citations

46918

47
h-index

54797

84
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110
all docs

110
docs citations

110
times ranked

6464
citing authors

#	ARTICLE	IF	CITATIONS
1	A dual-mode visual detector for toxic hydrazine. <i>RSC Advances</i> , 2021, 11, 22835-22841.	1.7	5
2	Photothermal release of an encapsulated therapeutic agent from polymer-wrapped gold nanoparticles. <i>Nanoscale Advances</i> , 2021, 3, 4669-4673.	2.2	2
3	Improved polyaromatic benzoin photoremovable protecting groups. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 421, 113530.	2.0	2
4	The Interaction of Urinary Components with Biomaterials in the Urinary Tract: Ureteral Stent Discoloration. <i>Journal of Endourology</i> , 2020, 34, 608-616.	1.1	6
5	Direct Photolithographic Deposition of Color-Coded Anti-Counterfeit Patterns with Titania Encapsulated Upconverting Nanoparticles. <i>Advanced Optical Materials</i> , 2020, 8, 2000664.	3.6	12
6	Unusual structural changes as a result of weathering benzofuran-based diarylethenes in simulated sunlight. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1961-1966.	2.3	2
7	Using light to control the inhibition of Karstedt's catalyst. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1253-1256.	2.3	15
8	Probing the Microenvironments in a Polymer-Wrapped Core-Shell Nanoassembly Using Pyrene Chromophores. <i>ACS Omega</i> , 2018, 3, 7673-7680.	1.6	9
9	Visible-Light-Triggered Activation of a Protein Kinase Inhibitor. <i>ChemMedChem</i> , 2017, 12, 284-287.	1.6	31
10	Using low-energy near infrared light and upconverting nanoparticles to trigger photoreactions within supramolecular assemblies. <i>Chemical Communications</i> , 2016, 52, 8636-8644.	2.2	23
11	Two-colour fluorescent imaging in organisms using self-assembled nano-systems of upconverting nanoparticles and molecular switches. <i>Nanoscale</i> , 2015, 7, 11263-11266.	2.8	27
12	Energy transfer between amphiphilic porphyrin polymer shells and upconverting nanoparticle cores in water-dispersible nano-assemblies. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2317-2322.	1.5	4
13	Two Colors of Light Are Needed to Break Bonds and Release Small Molecules from the Surface of SiO ₂ -Au Core-Shell Nanoparticles. <i>Journal of the American Chemical Society</i> , 2015, 137, 2824-2827.	6.6	24
14	From slow to fast – the user controls the rate of the release of molecules from masked forms using a photoswitch and different types of light. <i>Chemical Communications</i> , 2015, 51, 7039-7042.	2.2	19
15	A 'Plug and Play' Method to Create Water-dispersible Nanoassemblies Containing an Amphiphilic Polymer, Organic Dyes and Upconverting Nanoparticles. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	0
16	Fluorescent Quenching of Lanthanide-Doped Upconverting Nanoparticles by Photoresponsive Polymer Shells. <i>Chemistry of Materials</i> , 2014, 26, 4313-4320.	3.2	34
17	Controlling a Polymer Adhesive Using Light and a Molecular Switch. <i>Journal of the American Chemical Society</i> , 2014, 136, 3024-3027.	6.6	103
18	A Photoresponsive Biomimetic Dry Adhesive Based on Doped PDMS Microstructures. <i>Chemistry of Materials</i> , 2014, 26, 4330-4333.	3.2	28

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19	A "Plug-and-Play" Method to Prepare Water-Soluble Photoresponsive Encapsulated Upconverting Nanoparticles Containing Hydrophobic Molecular Switches. <i>Chemistry of Materials</i> , 2013, 25, 2495-2502.	3.2	51
20	Photothermal release of singlet oxygen from gold nanoparticles. <i>Chemical Communications</i> , 2013, 49, 5639.	2.2	65
21	A UV-Blocking Polymer Shell Prevents One-Photon Photoreactions while Allowing Multi-Photon Processes in Encapsulated Upconverting Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11106-11109.	7.2	29
22	Near Infrared Light Triggered Release of Biomacromolecules from Hydrogels Loaded with Upconversion Nanoparticles. <i>Journal of the American Chemical Society</i> , 2012, 134, 16558-16561.	6.6	388
23	Multimodal fluorescence modulation using molecular photoswitches and upconverting nanoparticles. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 6159.	1.5	22
24	Using light and a molecular switch to "lock" and "unlock" the Diels-Alder reaction. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2787.	1.5	40
25	Photothermal release of small molecules from gold nanoparticles in live cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 908-915.	1.7	27
26	Reporting the Release of Caged Species by a Combination of Two Sequential Photoreactions, a Molecular Switch, and One Color of Light. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2741-2744.	7.2	23
27	Turning "On" and "Off" a Pyridoxal 5-Phosphate Mimic Using Light. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5431-5434.	7.2	92
28	Photomodulation of Fluorescent Upconverting Nanoparticle Markers in Live Organisms by Using Molecular Switches. <i>Chemistry - A European Journal</i> , 2012, 18, 3122-3126.	1.7	64
29	Charge Transfer and Intraligand Excited State Interactions in Platinum-Sensitized Dithienylethenes. <i>Inorganic Chemistry</i> , 2011, 50, 4956-4966.	1.9	42
30	Near-Infrared Light-Triggered Dissociation of Block Copolymer Micelles Using Upconverting Nanoparticles. <i>Journal of the American Chemical Society</i> , 2011, 133, 19714-19717.	6.6	428
31	A "chemically-gated" photoresponsive compound as a visible detector for organophosphorus nerve agents. <i>Chemical Communications</i> , 2011, 47, 10954.	2.2	51
32	Chiral and Extended π -Conjugated Bis(2-pyridyl)phospholes as Assembling N,P,N Pincers for Coordination-Driven Synthesis of Supramolecular [2,2]Paracyclophane Analogues. <i>Chemistry - A European Journal</i> , 2011, 17, 1337-1351.	1.7	43
33	Multifunctional photo- and thermo-responsive copolymer nanoparticles. <i>Dyes and Pigments</i> , 2011, 89, 230-235.	2.0	33
34	Remote Control Photorelease of Caged Compounds Using Near-Infrared Light and Upconverting Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3782-3785.	7.2	206
35	Photothermal Release of Single-Stranded DNA from the Surface of Gold Nanoparticles Through Controlled Denaturing and Au-S Bond Breaking. <i>ACS Nano</i> , 2010, 4, 6395-6403.	7.3	132
36	Two-Way Photoswitching Using One Type of Near-Infrared Light, Upconverting Nanoparticles, and Changing Only the Light Intensity. <i>Journal of the American Chemical Society</i> , 2010, 132, 15766-15772.	6.6	293

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37	Optical control of quantum dot luminescence via photoisomerization of a surface-coordinated, cationic dithienylethene. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 249.	1.6	50
38	Mechanism of Calcium Oxalate Monohydrate Kidney Stones Formation: Layered Spherulitic Growth. <i>Chemistry of Materials</i> , 2010, 22, 1318-1329.	3.2	27
39	An Efficient Method Based on the Photothermal Effect for the Release of Molecules from Metal Nanoparticle Surfaces. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4166-4169.	7.2	121
40	Remote-Control Photoswitching Using NIR Light. <i>Journal of the American Chemical Society</i> , 2009, 131, 10838-10839.	6.6	216
41	Linker-Dependent Metal-Sensitized Photoswitching of Dithienylethenes. <i>Inorganic Chemistry</i> , 2009, 48, 19-21.	1.9	77
42	Hollow Metal Nanorods with Tunable Dimensions, Porosity, and Photonic Properties. <i>ACS Nano</i> , 2009, 3, 1365-1372.	7.3	66
43	Selective Water Uptake in Calcium Oxalate Monohydrate Kidney Stones. <i>Chemistry of Materials</i> , 2009, 21, 5016-5021.	3.2	1
44	A Photocontrolled Molecular Switch Regulates Paralysis in a Living Organism. <i>Journal of the American Chemical Society</i> , 2009, 131, 15966-15967.	6.6	151
45	Successful Bifunctional Photoswitching and Electronic Communication of Two Platinum(II) Acetylide Bridged Dithienylethenes. <i>Journal of the American Chemical Society</i> , 2009, 131, 16644-16645.	6.6	95
46	Modulating the Lewis Acidity of Boron Using a Photoswitch. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5034-5037.	7.2	88
47	Regulation of Human Carbonic Anhydrase I (hCAI) Activity by Using a Photochromic Inhibitor. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7644-7647.	7.2	114
48	Reversible and Amplified Fluorescence Quenching of a Photochromic Polythiophene. <i>Advanced Materials</i> , 2008, 20, 1998-2002.	11.1	56
49	High-contrast fluorescence switching using a photoresponsive dithienylethene coordination compound. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 200, 74-82.	2.0	41
50	Modulating chemical reactivity using a photoresponsive molecular switch. <i>Tetrahedron</i> , 2008, 64, 8292-8300.	1.0	41
51	Supramolecular Metal-Polypyridyl and Ru(II) Porphyrin Complexes: Photophysical, Electron Paramagnetic Resonance, and Electrochemical Studies. <i>Inorganic Chemistry</i> , 2008, 47, 5425-5440.	1.9	15
52	Creating a Reactive Enediyne by Using Visible Light: Photocontrol of the Bergman Cyclization. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8017-8019.	7.2	75
53	Bidirectional Ring-Opening and Ring-Closing of Cationic 1,2-Dithienylcyclopentene Molecular Switches Triggered with Light or Electricity. <i>Advanced Functional Materials</i> , 2007, 17, 786-796.	7.8	67
54	Selective and Sequential Photorelease Using Molecular Switches. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6820-6824.	7.2	117

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55	Integrating molecular switching and chemical reactivity using photoresponsive hexatrienes. <i>Pure and Applied Chemistry</i> , 2006, 78, 2351-2359.	0.9	48
56	Electrochemically induced dethreading of a 2-pseudorotaxane based on the 1,2-bis(4,4'-pyridinium)ethane/24-crown-8 ether motif. <i>Tetrahedron Letters</i> , 2005, 46, 6761-6763.	0.7	6
57	High-Content Photochromic Polymers Based on Dithienylethenes. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 1233-1238.	1.2	76
58	Photoswitching of Stereoselectivity in Catalysis Using a Copper Dithienylethene Complex. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2019-2021.	7.2	147
59	A Photoswitchable Donor-Linker-Acceptor System Based on a Modified Hexatriene Backbone. <i>Advanced Materials</i> , 2005, 17, 2134-2138.	11.1	20
60	High-Content Photochromic Polymers Based on Dithienylethenes. <i>ChemInform</i> , 2005, 36, no.	0.1	0
61	Photomodulation of Lewis basicity in a pyridine-functionalized 1,2-dithienylcyclopentene. <i>Chemical Communications</i> , 2005, , 2840.	2.2	55
62	Synthesis and Coordination Chemistry of a Photoswitchable Bis(phosphine) Ligand. <i>Inorganic Chemistry</i> , 2005, 44, 5960-5962.	1.9	42
63	Reactivity-Gated Photochromism of 1,2-Dithienylethenes for Potential Use in Dosimetry Applications. <i>Organic Letters</i> , 2005, 7, 2969-2972.	2.4	91
64	Chiral Discrimination in Photochromic Helicenes. <i>Journal of the American Chemical Society</i> , 2005, 127, 7272-7273.	6.6	195
65	A Family of Multiaddressable, Multicolored Photoresponsive Copolymers Prepared by Ring-Opening Metathesis Polymerization. <i>Chemistry of Materials</i> , 2005, 17, 5473-5480.	3.2	45
66	Reductive Electrochemical Cyclization of a Photochromic 1,2-Dithienylcyclopentene Dication. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2812-2815.	7.2	104
67	Ultra-High-Density Photochromic Main-Chain 1,2-Dithienylcyclopentene Polymers Prepared Using Ring-Opening Metathesis Polymerization. <i>Advanced Materials</i> , 2004, 16, 123-125.	11.1	30
68	Structural Studies on Hydrogen-Bonding Receptors for Barbiturate Guests That Use Metal Ions as Allosteric Inhibitors. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 173-182.	1.2	24
69	A Multi-Addressable Photochromic 1,2-Dithienylcyclopentene-Phenoxynaphthacenequinone Hybrid. <i>Advanced Materials</i> , 2003, 15, 745-748.	11.1	96
70	Novel Photochromic Homopolymers Based on 1,2-Bis(3-thienyl)cyclopentenes. <i>Macromolecules</i> , 2003, 36, 298-303.	2.2	63
71	Electrochromism in Photochromic Dithienylcyclopentenes. <i>Journal of the American Chemical Society</i> , 2003, 125, 3404-3405.	6.6	221
72	Electrochemically induced ring-closing of photochromic 1,2-dithienylcyclopentenes. <i>Chemical Communications</i> , 2003, , 954-955.	2.2	106

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73	Novel Photochromic Compounds Based on the 1-Thienyl-2-vinylcyclopentene Backbone. <i>Organic Letters</i> , 2003, 5, 1183-1186.	2.4	71
74	Photochromic porphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 2003, 07, 313-317.	0.4	8
75	Protons as the Triggers to Regulate Hydrogen-Bonding Receptors. <i>Organic Letters</i> , 2002, 4, 881-884.	2.4	25
76	The Construction of (Salophen)ruthenium(II) Assemblies Using Axial Coordination. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 357-368.	1.0	117
77	1,2-Dithienylethene Photochromes and Non-destructive Erasable Memory. <i>Advanced Functional Materials</i> , 2002, 12, 167.	7.8	199
78	Strong and directed association of porphyrins and iron(terpyridine)s using hydrogen bonding and ion pairing. <i>Tetrahedron</i> , 2002, 58, 639-651.	1.0	16
79	Photoregulation of Fluorescence in a Porphyrinic Dithienylethene Photochrome. <i>Journal of the American Chemical Society</i> , 2001, 123, 1784-1785.	6.6	332
80	Controlling Photoinduced Electron Transfer within a Hydrogen-Bonded Porphyrin-Phenoxynaphthacenequinone Photochromic System. <i>Journal of the American Chemical Society</i> , 2001, 123, 177-178.	6.6	123
81	Reversible [7]-Thiahelicene Formation Using a 1,2-Dithienylcyclopentene Photochrome. <i>Journal of the American Chemical Society</i> , 2001, 123, 7447-7448.	6.6	78
82	A remarkably stable hydrogen-bonded porphyrin-iron(terpyridine) ion pair. <i>Chemical Communications</i> , 2001, , 1794-1795.	2.2	11
83	Rigid, Cross-Conjugated Macrocycles: A Cyclic Alternative to 4,4'-Bipyridines in Supramolecular Chemistry. <i>Organic Letters</i> , 2001, 3, 1045-1048.	2.4	36
84	Nondestructive Data Processing Based on Chiroptical 1,2-Dithienylethene Photochromes. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1752-1755.	7.2	167
85	Coordination complexes of \hat{I}^2 -thioether appended tetraazaporphyrin. <i>Inorganic Chemistry Communication</i> , 2001, 4, 219-222.	1.8	19
86	Limited photochromism in covalently linked double 1,2-dithienylethenes. <i>Advanced Materials for Optics and Electronics</i> , 2000, 10, 245-249.	0.6	95
87	Porphyrinic phenoxynaphthacenequinones. <i>Tetrahedron Letters</i> , 2000, 41, 3785-3788.	0.7	17
88	Axially coordinated porphyrins as new rotaxane stoppers. <i>Chemical Communications</i> , 2000, , 847-848.	2.2	75
89	The metal-directed self-assembly of three-dimensional porphyrin arrays. <i>Chemical Communications</i> , 2000, , 1211-1212.	2.2	38
90	Chiral Discrimination in Hydrogen-Bonded [7]Helicenes. <i>Organic Letters</i> , 2000, 2, 3169-3172.	2.4	138

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91	Novel Synthesis of Photochromic Polymers via ROMP. <i>Organic Letters</i> , 2000, 2, 2749-2751.	2.4	32
92	Supramolecular Chirality: Chiral hydrogen-bonded supermolecules from achiral molecular components. <i>Helvetica Chimica Acta</i> , 1998, 81, 1-13.	1.0	58
93	Control of Self-Assembly and Reversible Encapsulation of Xenon in a Self-Assembling Dimer by Acid-Base Chemistry. <i>Journal of the American Chemical Society</i> , 1995, 117, 85-88.	6.6	156
94	Multipoint recognition of carboxylates by neutral hosts in non-polar solvents. <i>Tetrahedron Letters</i> , 1993, 34, 6837-6840.	0.7	118
95	Replication and assembly. <i>Pure and Applied Chemistry</i> , 1993, 65, 2313-2318.	0.9	14
96	Stereoelectronic effects in cyclization reactions. <i>Journal of the American Chemical Society</i> , 1990, 112, 3685-3686.	6.6	15
97	Photoresponsive Thiophene-Based Molecules and Materials. , 0, , 783-811.		1
98	Photochromic Materials in Biochemistry. , 0, , 361-391.		1