

Neil R Branda

List of Publications by Year in descending order

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47006

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110
docs citations

110
times ranked

6464
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-Infrared Light-Triggered Dissociation of Block Copolymer Micelles Using Upconverting Nanoparticles. <i>Journal of the American Chemical Society</i> , 2011, 133, 19714-19717.	13.7	428
2	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.	13.7	388
3	Photoregulation of Fluorescence in a Porphyrinic Dithienylethene Photochrome. <i>Journal of the American Chemical Society</i> , 2001, 123, 1784-1785.	13.7	332
4	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.	13.7	293
5	Electrochromism in Photochromic Dithienylcyclopentenes. <i>Journal of the American Chemical Society</i> , 2003, 125, 3404-3405.	13.7	221
6	Remote-Control Photoswitching Using NIR Light. <i>Journal of the American Chemical Society</i> , 2009, 131, 10838-10839.	13.7	216
7	Remote-Control Photorelease of Caged Compounds Using Near-Infrared Light and Upconverting Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3782-3785.	13.8	206
8	1,2-Dithienylethene Photochromes and Non-destructive Erasable Memory. <i>Advanced Functional Materials</i> , 2002, 12, 167.	14.9	199
9	Chiral Discrimination in Photochromic Helicenes. <i>Journal of the American Chemical Society</i> , 2005, 127, 7272-7273.	13.7	195
10	Nondestructive Data Processing Based on Chiroptical 1,2-Dithienylethene Photochromes. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1752-1755.	13.8	167
11	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.	13.7	156
12	A Photocontrolled Molecular Switch Regulates Paralysis in a Living Organism. <i>Journal of the American Chemical Society</i> , 2009, 131, 15966-15967.	13.7	151
13	Photoswitching of Stereoselectivity in Catalysis Using a Copper Dithienylethene Complex. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2019-2021.	13.8	147
14	Chiral Discrimination in Hydrogen-Bonded [7]Helicenes. <i>Organic Letters</i> , 2000, 2, 3169-3172.	4.6	138
15	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.	14.6	132
16	Controlling Photoinduced Electron Transfer within a Hydrogen-Bonded Porphyrin-Phenoxynaphthacenequinone Photochromic System. <i>Journal of the American Chemical Society</i> , 2001, 123, 177-178.	13.7	123
17	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.	13.8	121
18	Multipoint recognition of carboxylates by neutral hosts in non-polar solvents. <i>Tetrahedron Letters</i> , 1993, 34, 6837-6840.	1.4	118

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19	The Construction of (Salophen)ruthenium(II) Assemblies Using Axial Coordination. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 357-368.	2.0	117
20	Selective and Sequential Photorelease Using Molecular Switches. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6820-6824.	13.8	117
21	Regulation of Human Carbonic Anhydrase I (hCAI) Activity by Using a Photochromic Inhibitor. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7644-7647.	13.8	114
22	Electrochemically induced ring-closing of photochromic 1,2-dithienylcyclopentenes. <i>Chemical Communications</i> , 2003, , 954-955.	4.1	106
23	Reductive Electrochemical Cyclization of a Photochromic 1,2-Dithienylcyclopentene Dication. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2812-2815.	13.8	104
24	Controlling a Polymer Adhesive Using Light and a Molecular Switch. <i>Journal of the American Chemical Society</i> , 2014, 136, 3024-3027.	13.7	103
25	A Multi-Addressable Photochromic 1,2-Dithienylcyclopentene-Phenoxynaphthacenequinone Hybrid. <i>Advanced Materials</i> , 2003, 15, 745-748.	21.0	96
26	Limited photochromism in covalently linked double 1,2-dithienylethenes. <i>Advanced Materials for Optics and Electronics</i> , 2000, 10, 245-249.	0.4	95
27	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.	13.7	95
28	Turning "On" and "Off" a Pyridoxal 5'-Phosphate Mimic Using Light. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5431-5434.	13.8	92
29	Reactivity-Gated Photochromism of 1,2-Dithienylethenes for Potential Use in Dosimetry Applications. <i>Organic Letters</i> , 2005, 7, 2969-2972.	4.6	91
30	Modulating the Lewis Acidity of Boron Using a Photoswitch. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5034-5037.	13.8	88
31	Reversible [7]-Thiahelicene Formation Using a 1,2-Dithienylcyclopentene Photochrome. <i>Journal of the American Chemical Society</i> , 2001, 123, 7447-7448.	13.7	78
32	Linker-Dependent Metal-Sensitized Photoswitching of Dithienylethenes. <i>Inorganic Chemistry</i> , 2009, 48, 19-21.	4.0	77
33	High-Content Photochromic Polymers Based on Dithienylethenes. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 1233-1238.	2.4	76
34	Axially coordinated porphyrins as new rotaxane stoppers. <i>Chemical Communications</i> , 2000, , 847-848.	4.1	75
35	Creating a Reactive Enediyne by Using Visible Light: Photocontrol of the Bergman Cyclization. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8017-8019.	13.8	75
36	Novel Photochromic Compounds Based on the 1-Thienyl-2-vinylcyclopentene Backbone. <i>Organic Letters</i> , 2003, 5, 1183-1186.	4.6	71

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37	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.	14.9	67
38	Hollow Metal Nanorods with Tunable Dimensions, Porosity, and Photonic Properties. <i>ACS Nano</i> , 2009, 3, 1365-1372.	14.6	66
39	Photothermal release of singlet oxygen from gold nanoparticles. <i>Chemical Communications</i> , 2013, 49, 5639.	4.1	65
40	Photomodulation of Fluorescent Upconverting Nanoparticle Markers in Live Organisms by Using Molecular Switches. <i>Chemistry - A European Journal</i> , 2012, 18, 3122-3126.	3.3	64
41	Novel Photochromic Homopolymers Based on 1,2-Bis(3-thienyl)cyclopentenes. <i>Macromolecules</i> , 2003, 36, 298-303.	4.8	63
42	Supramolecular Chirality: Chiral hydrogen-bonded supermolecules from achiral molecular components. <i>Helvetica Chimica Acta</i> , 1998, 81, 1-13.	1.6	58
43	Reversible and Amplified Fluorescence Quenching of a Photochromic Polythiophene. <i>Advanced Materials</i> , 2008, 20, 1998-2002.	21.0	56
44	Photomodulation of Lewis basicity in a pyridine-functionalized 1,2-dithienylcyclopentene. <i>Chemical Communications</i> , 2005, , 2840.	4.1	55
45	A π -chemically-gated™ photoresponsive compound as a visible detector for organophosphorus nerve agents. <i>Chemical Communications</i> , 2011, 47, 10954.	4.1	51
46	A π -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.	6.7	51
47	Optical control of quantum dot luminescence via photoisomerization of a surface-coordinated, cationic dithienylethene. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 249.	2.9	50
48	Integrating molecular switching and chemical reactivity using photoresponsive hexatrienes. <i>Pure and Applied Chemistry</i> , 2006, 78, 2351-2359.	1.9	48
49	A Family of Multiaddressable, Multicolored Photoresponsive Copolymers Prepared by Ring-Opening Metathesis Polymerization. <i>Chemistry of Materials</i> , 2005, 17, 5473-5480.	6.7	45
50	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.	3.3	43
51	Synthesis and Coordination Chemistry of a Photoswitchable Bis(phosphine) Ligand. <i>Inorganic Chemistry</i> , 2005, 44, 5960-5962.	4.0	42
52	Charge Transfer and Intraligand Excited State Interactions in Platinum-Sensitized Dithienylethenes. <i>Inorganic Chemistry</i> , 2011, 50, 4956-4966.	4.0	42
53	High-contrast fluorescence switching using a photoresponsive dithienylethene coordination compound. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 200, 74-82.	3.9	41
54	Modulating chemical reactivity using a photoresponsive molecular switch. <i>Tetrahedron</i> , 2008, 64, 8292-8300.	1.9	41

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55	Using light and a molecular switch to "lock" and "unlock" the Diels-Alder reaction. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2787.	2.8	40
56	The metal-directed self-assembly of three-dimensional porphyrin arrays. <i>Chemical Communications</i> , 2000, , 1211-1212.	4.1	38
57	Rigid, Cross-Conjugated Macrocycles: A Cyclic Alternative to 4,4'-Bipyridines in Supramolecular Chemistry. <i>Organic Letters</i> , 2001, 3, 1045-1048.	4.6	36
58	Fluorescent Quenching of Lanthanide-Doped Upconverting Nanoparticles by Photoresponsive Polymer Shells. <i>Chemistry of Materials</i> , 2014, 26, 4313-4320.	6.7	34
59	Multifunctional photo- and thermo-responsive copolymer nanoparticles. <i>Dyes and Pigments</i> , 2011, 89, 230-235.	3.7	33
60	Novel Synthesis of Photochromic Polymers via ROMP. <i>Organic Letters</i> , 2000, 2, 2749-2751.	4.6	32
61	Visible-Light-Triggered Activation of a Protein Kinase Inhibitor. <i>ChemMedChem</i> , 2017, 12, 284-287.	3.2	31
62	Ultra-High-Density Photochromic Main-Chain 1,2-Dithienylcyclopentene Polymers Prepared Using Ring-Opening Metathesis Polymerization. <i>Advanced Materials</i> , 2004, 16, 123-125.	21.0	30
63	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.	13.8	29
64	A Photoresponsive Biomimetic Dry Adhesive Based on Doped PDMS Microstructures. <i>Chemistry of Materials</i> , 2014, 26, 4330-4333.	6.7	28
65	Mechanism of Calcium Oxalate Monohydrate Kidney Stones Formation: Layered Spherulitic Growth. <i>Chemistry of Materials</i> , 2010, 22, 1318-1329.	6.7	27
66	Photothermal release of small molecules from gold nanoparticles in live cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 908-915.	3.3	27
67	Two-colour fluorescent imaging in organisms using self-assembled nano-systems of upconverting nanoparticles and molecular switches. <i>Nanoscale</i> , 2015, 7, 11263-11266.	5.6	27
68	Protons as the Triggers to Regulate Hydrogen-Bonding Receptors. <i>Organic Letters</i> , 2002, 4, 881-884.	4.6	25
69	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.	2.4	24
70	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.	13.7	24
71	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.	13.8	23
72	Using low-energy near infrared light and upconverting nanoparticles to trigger photoreactions within supramolecular assemblies. <i>Chemical Communications</i> , 2016, 52, 8636-8644.	4.1	23

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73	Multimodal fluorescence modulation using molecular photoswitches and upconverting nanoparticles. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 6159.	2.8	22
74	A Photoswitchable Donor- π -Linker-Acceptor System Based on a Modified Hexatriene Backbone. <i>Advanced Materials</i> , 2005, 17, 2134-2138.	21.0	20
75	Coordination complexes of $\hat{\nu}^2$ -thioether appended tetraazaporphyrin. <i>Inorganic Chemistry Communication</i> , 2001, 4, 219-222.	3.9	19
76	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.	4.1	19
77	Porphyrinic phenoxynaphthacenequinones. <i>Tetrahedron Letters</i> , 2000, 41, 3785-3788.	1.4	17
78	Strong and directed association of porphyrins and iron(terpyridine)s using hydrogen bonding and ion pairing. <i>Tetrahedron</i> , 2002, 58, 639-651.	1.9	16
79	Stereoelectronic effects in cyclization reactions. <i>Journal of the American Chemical Society</i> , 1990, 112, 3685-3686.	13.7	15
80	Supramolecular Metal-Polypyridyl and Ru(II) Porphyrin Complexes: Photophysical, Electron Paramagnetic Resonance, and Electrochemical Studies. <i>Inorganic Chemistry</i> , 2008, 47, 5425-5440.	4.0	15
81	Using light to control the inhibition of Karstedt's catalyst. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1253-1256.	4.5	15
82	Replication and assembly. <i>Pure and Applied Chemistry</i> , 1993, 65, 2313-2318.	1.9	14
83	Direct Photolithographic Deposition of Color-Coded Anti-Counterfeit Patterns with Titania Encapsulated Upconverting Nanoparticles. <i>Advanced Optical Materials</i> , 2020, 8, 2000664.	7.3	12
84	A remarkably stable hydrogen-bonded porphyrin-iron(terpyridine) ion pair. <i>Chemical Communications</i> , 2001, , 1794-1795.	4.1	11
85	Probing the Microenvironments in a Polymer-Wrapped Core-Shell Nanoassembly Using Pyrene Chromophores. <i>ACS Omega</i> , 2018, 3, 7673-7680.	3.5	9
86	Photochromic porphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 2003, 07, 313-317.	0.8	8
87	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.	1.4	6
88	The Interaction of Urinary Components with Biomaterials in the Urinary Tract: Ureteral Stent Discoloration. <i>Journal of Endourology</i> , 2020, 34, 608-616.	2.1	6
89	A dual-mode visual detector for toxic hydrazine. <i>RSC Advances</i> , 2021, 11, 22835-22841.	3.6	5
90	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.	2.8	4

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91	Unusual structural changes as a result of weathering benzofuran-based diarylethenes in simulated sunlight. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1961-1966.	4.5	2
92	Photothermal release of an encapsulated therapeutic agent from polymer-wrapped gold nanoparticles. <i>Nanoscale Advances</i> , 2021, 3, 4669-4673.	4.6	2
93	Improved polyaromatic benzoin photoremovable protecting groups. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 421, 113530.	3.9	2
94	Selective Water Uptake in Calcium Oxalate Monohydrate Kidney Stones. <i>Chemistry of Materials</i> , 2009, 21, 5016-5021.	6.7	1
95	Photoresponsive Thiophene-Based Molecules and Materials. , 0, , 783-811.		1
96	Photochromic Materials in Biochemistry. , 0, , 361-391.		1
97	High-Content Photochromic Polymers Based on Dithienylethenes. <i>ChemInform</i> , 2005, 36, no.	0.0	0
98	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, , .	0.3	0