

# Michael R Detty

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6613818/publications.pdf>

Version: 2024-02-01

197  
papers

8,294  
citations

44042

48  
h-index

66879

78  
g-index

198  
all docs

198  
docs citations

198  
times ranked

6937  
citing authors

#	ARTICLE	IF	CITATIONS
1	Current Clinical and Preclinical Photosensitizers for Use in Photodynamic Therapy. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 3897-3915.	2.9	981
2	Reductive Side of Water Splitting in Artificial Photosynthesis: New Homogeneous Photosystems of Great Activity and Mechanistic Insight. <i>Journal of the American Chemical Society</i> , 2010, 132, 15480-15483.	6.6	302
3	GPx-Like Activity of Selenides and Selenoxides: Experimental Evidence for the Involvement of Hydroxy Perhydroxy Selenane as the Active Species. <i>Journal of the American Chemical Society</i> , 2012, 134, 138-141.	6.6	156
4	Environmentally Benign Sol-gel Antifouling and Foul-Releasing Coatings. <i>Accounts of Chemical Research</i> , 2014, 47, 678-687.	7.6	135
5	Optimizing the Photocurrent Efficiency of Dye-Sensitized Solar Cells through the Controlled Aggregation of Chalcogenoxanthylum Dyes on Nanocrystalline Titania Films. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13057-13061.	1.5	129
6	Chalcogenopyrylium dyes as potential photochemotherapeutic agents. Solution studies of heavy atom effects on triplet yields, quantum efficiencies of singlet oxygen generation, rates of reaction with singlet oxygen, and emission quantum yields. <i>Journal of the American Chemical Society</i> , 1990, 112, 3845-3855.	6.6	118
7	Bis(trialkylsilyl) chalcogenides. 1. Preparation and reduction of group VIA oxides. <i>Journal of Organic Chemistry</i> , 1982, 47, 1354-1356.	1.7	114
8	Dendrimeric Organochalcogen Catalysts for the Activation of Hydrogen Peroxide: Improved Catalytic Activity through Statistical Effects and Cooperativity in Successive Generations. <i>Journal of the American Chemical Society</i> , 2001, 123, 57-67.	6.6	114
9	Oxidation of selenides and tellurides with positive halogenating species. <i>Journal of Organic Chemistry</i> , 1980, 45, 274-279.	1.7	112
10	Heteroatom Substitution Induced Changes in Excited-State Photophysics and Singlet Oxygen Generation in Chalcogenoxanthylum Dyes: Effect of Sulfur and Selenium Substitutions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8668-8672.	1.2	110
11	Rational design of a chalcogenopyrylium-based surface-enhanced resonance Raman scattering nanoprobe with attomolar sensitivity. <i>Nature Communications</i> , 2015, 6, 6570.	5.8	110
12	Cyclization of 3-(arylchalcogeno)propenoyl chlorides. 1. 1,2-Oxatelluro-1-ium halides via ipso acylation. <i>Journal of the American Chemical Society</i> , 1983, 105, 875-882.	6.6	100
13	Mechanistic Studies of the Tellurium(II)/Tellurium(IV) Redox Cycle in Thiol Peroxidase-like Reactions of Diorganotellurides in Methanol. <i>Journal of the American Chemical Society</i> , 2003, 125, 4918-4927.	6.6	99
14	Synthesis, properties, and photodynamic properties in vitro of heavy-chalcogen analogues of tetramethylrosamine. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 2537-2544.	1.4	97
15	Barnacle settlement and the adhesion of protein and diatom microfouling to xerogel films with varying surface energy and water wettability. <i>Biofouling</i> , 2010, 26, 657-666.	0.8	97
16	Water-Soluble, Core-Modified Porphyrins as Novel, Longer-Wavelength-Absorbing Sensitizers for Photodynamic Therapy. II. Effects of Core Heteroatoms and Meso-Substituents on Biological Activity. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 449-461.	2.9	92
17	Regiochemical control of the addition of aryl selenols and aryl thiols to the triple bond of arylpropiolates. Synthesis of seleno- and thioflavones and seleno- and thioaurones. <i>Journal of Organic Chemistry</i> , 1980, 45, 4611-4615.	1.7	91
18	Hybrid xerogel films as novel coatings for antifouling and fouling release. <i>Biofouling</i> , 2005, 21, 59-71.	0.8	89

#	ARTICLE	IF	CITATIONS
19	Core-modified porphyrins. Part 4: Steric effects on photophysical and biological properties in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 2235-2251.	1.4	88
20	Water Soluble, Core-Modified Porphyrins. 3. Synthesis, Photophysical Properties, and in Vitro Studies of Photosensitization, Uptake, and Localization with Carboxylic Acid-Substituted Derivatives. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 3734-3747.	2.9	85
21	Isoselenazolones as Catalysts for the Activation of Bromine: Bromolactonization of Alkenoic Acids and Oxidation of Alcohols. <i>Journal of Organic Chemistry</i> , 2012, 77, 9541-9552.	1.7	83
22	Cyclization of 3-(arylchalcogeno)propenoyl chlorides. 2. Chalcogen and substituent control in the regiochemistry of intramolecular acylation. Preparation of benzo[b]telluropyrones. <i>Journal of the American Chemical Society</i> , 1983, 105, 883-890.	6.6	81
23	Chalcogenapyrylium dyes as photochemotherapeutic agents. 2. Tumor uptake, mitochondrial targeting, and singlet-oxygen-induced inhibition of cytochrome c oxidase. <i>Journal of Medicinal Chemistry</i> , 1990, 33, 1108-1116.	2.9	81
24	Water-Soluble, Core-Modified Porphyrins as Novel, Longer-Wavelength-Absorbing Sensitizers for Photodynamic Therapy. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 2403-2410.	2.9	81
25	Synthesis of highly functionalized flavones and chromones using cycloacylation reactions and C-3 functionalization. A total synthesis of hormothamnione. <i>Journal of Organic Chemistry</i> , 1990, 55, 4349-4356.	1.7	78
26	Tellurium Analogues of Rosamine and Rhodamine Dyes: Synthesis, Structure, <sup>125</sup> Te NMR, and Heteroatom Contributions to Excitation Energies. <i>Organometallics</i> , 2007, 26, 6248-6257.	1.1	76
27	Silyl halides from (phenylseleno)silanes. Reaction with oxiranes and alcohols to give hydrolytically stable silyl ethers. <i>Journal of Organic Chemistry</i> , 1981, 46, 1283-1292.	1.7	70
28	Selenoxides as Catalysts for the Activation of Hydrogen Peroxide. Bromination of Organic Substrates with Sodium Bromide and Hydrogen Peroxide. <i>Organometallics</i> , 2004, 23, 3016-3020.	1.1	68
29	Substitution reactions of thallos thiophenoxide and thallos phenyl selenide with halogen-bearing substrates. <i>Journal of Organic Chemistry</i> , 1980, 45, 80-89.	1.7	67
30	Preparation of arylpropionate esters from trichlorocyclopropenium cation and elaboration of the esters to unsymmetrical 1,4-pentadiyn-3-ones and unsymmetrical tellurapyranones. <i>Journal of Organic Chemistry</i> , 1987, 52, 3662-3668.	1.7	66
31	A Mechanism for the Oxidation of Glutathione to Glutathione Disulfide with Organotellurium(IV) and Organoselenium(IV) Compounds. A Stepwise Process with Implications for Photodynamic Therapy and Other Oxidative Chemotherapy. <i>Journal of Organic Chemistry</i> , 1994, 59, 8245-8250.	1.7	66
32	Dendrimeric Organochalcogen Catalysts for the Activation of Hydrogen Peroxide: Origins of the "Dendrimer Effect" with Catalysts Terminating in Phenylseleno Groups. <i>Journal of the American Chemical Society</i> , 2003, 125, 12558-12566.	6.6	65
33	Iodination of Organic Substrates with Halide Salts and H <sub>2</sub> O <sub>2</sub> Using an Organotelluride Catalyst. <i>Organic Letters</i> , 2001, 3, 349-352.	2.4	63
34	A Selenopyrylium Photosensitizer for Photodynamic Therapy Related in Structure to the Antitumor Agent AA1 with Potent in Vivo Activity and No Long-Term Skin Photosensitization. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 4488-4498.	2.9	61
35	Substituent Effects in Arylseleninic Acid-Catalyzed Bromination of Organic Substrates with Sodium Bromide and Hydrogen Peroxide. <i>Organometallics</i> , 2003, 22, 4158-4162.	1.1	61
36	The role of surface energy and water wettability in aminoalkyl/fluorocarbon/hydrocarbon-modified xerogel surfaces in the control of marine biofouling. <i>Biofouling</i> , 2009, 26, 235-246.	0.8	61

#	ARTICLE	IF	CITATIONS
37	Aggregation-Induced Increase of the Quantum Yield of Electron Injection from Chalcogenorhodamine Dyes to TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2011, 115, 6010-6018.	1.5	61
38	Tellurapyrylium dyes. 2. The electron-donating properties of the chalcogen atoms to the chalcogenopyrylium nuclei and their radical dications, neutral radicals, and anions. <i>Organometallics</i> , 1988, 7, 1131-1147.	1.1	58
39	Rhodamine Inhibitors of P-Glycoprotein: An Amide/Thioamide "Switch" for ATPase Activity. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 3328-3341.	2.9	58
40	An ebselen like catalyst with enhanced GPx activity via a selenol intermediate. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 1215-1219.	1.5	58
41	Telluopyrylium dyes. 1. 2,6-Diphenyltelluopyrylium dyes. <i>Journal of Organic Chemistry</i> , 1982, 47, 5235-5239.	1.7	56
42	Synthesis and Evaluation of Chalcogenopyrylium Dyes as Potential Sensitizers for the Photodynamic Therapy of Cancer. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 3953-3964.	2.9	56
43	A Xerogel-Sequestered Selenoxide Catalyst for Brominations with Hydrogen Peroxide and Sodium Bromide in an Aqueous Environment. <i>Journal of Organic Chemistry</i> , 2008, 73, 6849-6852.	1.7	54
44	The ATPase Activity of the P-glycoprotein Drug Pump Is Highly Activated When the N-terminal and Central Regions of the Nucleotide-binding Domains Are Linked Closely Together. <i>Journal of Biological Chemistry</i> , 2012, 287, 26806-26816.	1.6	54
45	Influence of Surface-Attachment Functionality on the Aggregation, Persistence, and Electron-Transfer Reactivity of Chalcogenorhodamine Dyes on TiO <sub>2</sub> . <i>Langmuir</i> , 2012, 28, 7071-7082.	1.6	54
46	2,4,6-Triarylchalcogenopyrylium Dyes Related in Structure to the Antitumor Agent AA1 as in Vitro Sensitizers for the Photodynamic Therapy of Cancer. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 3942-3952.	2.9	53
47	Selenorhodamine Photosensitizers for Photodynamic Therapy of P-Glycoprotein-Expressing Cancer Cells. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 8622-8634.	2.9	53
48	Tellurapyrylium dyes as catalysts for oxidations with hydrogen peroxide and as scavengers of singlet oxygen. Dihydroxytelluranes as mild oxidizing agents. <i>Organometallics</i> , 1992, 11, 2147-2156.	1.1	52
49	Synthesis and Properties of Heavy Chalcogen Analogues of the Texas Reds and Related Rhodamines. <i>Organometallics</i> , 2014, 33, 2628-2640.	1.1	52
50	Core-modified porphyrins. Part 5: Electronic effects on photophysical and biological properties in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 5968-5980.	1.4	49
51	Antifouling character of "active" hybrid xerogel coatings with sequestered catalysts for the activation of hydrogen peroxide. <i>Biofouling</i> , 2009, 25, 21-33.	0.8	49
52	Positive Halogens from Halides and Hydrogen Peroxide with Organotellurium Catalysts. <i>Journal of the American Chemical Society</i> , 1996, 118, 313-318.	6.6	48
53	Soluble, Infrared-Absorbing Croconate Dyes from 2,6-Di-tert-butyl-4-methylchalcogenopyrylium Salts. <i>Journal of Organic Chemistry</i> , 2000, 65, 2236-2238.	1.7	48
54	A comparison of the antifouling/foul-release characteristics of non-biocidal xerogel and commercial coatings toward micro- and macrofouling organisms. <i>Biofouling</i> , 2012, 28, 511-523.	0.8	48

#	ARTICLE	IF	CITATIONS
55	Imidazolium-containing diselenides for catalytic oxidations with hydrogen peroxide and sodium bromide in aqueous solutions. <i>Tetrahedron</i> , 2012, 68, 10476-10481.	1.0	48
56	Tellurapyrylium dyes as photochemotherapeutic agents. Surprising tellurium atom effects for the generation of rates of reaction with singlet oxygen. <i>Journal of the American Chemical Society</i> , 1988, 110, 5920-5922.	6.6	47
57	Extreme red shifted SERS nanotags. <i>Chemical Science</i> , 2015, 6, 2302-2306.	3.7	47
58	21-Telluraporphyrins. 2. Catalysts for Bromination Reactions with Hydrogen Peroxide and Sodium Bromide. <i>Organometallics</i> , 2002, 21, 4546-4551.	1.1	45
59	The control of marine biofouling on xerogel surfaces with nanometer-scale topography. <i>Biofouling</i> , 2011, 27, 137-149.	0.8	45
60	Through tissue imaging of a live breast cancer tumour model using handheld surface enhanced spatially offset resonance Raman spectroscopy (SESORRS). <i>Chemical Science</i> , 2018, 9, 3788-3792.	3.7	45
61	Dendrimeric Catalysts for the Activation of Hydrogen Peroxide. Increasing Activity per Catalytic Phenylseleno Group in Successive Generations. <i>Organic Letters</i> , 1999, 1, 1043-1046.	2.4	44
62	Electrophilic conversion of oxiranes to allylic alcohols with tert-butyldimethylsilyl iodide. <i>Journal of Organic Chemistry</i> , 1980, 45, 924-926.	1.7	43
63	2,4'-4-chalcogenapyrylyl-4h-chalcogenapyrans. <i>Tetrahedron</i> , 1985, 41, 4853-4859.	1.0	43
64	Chalcogen(IV) to Chalcogen(II) Redox Cycles. 1. Halogenation of Organic Substrates with Dihaloselenium(IV) and -tellurium(IV) Derivatives. Dehalogenation of Vicinal Dibromides with Diaryl Tellurides. <i>Organometallics</i> , 1996, 15, 4285-4292.	1.1	43
65	21-Telluraporphyrins. 1. Impact of 21,23-Heteroatom Interactions on Electrochemical Redox Potentials, <sup>125</sup> Te NMR Spectra, and Absorption Spectra. <i>Organometallics</i> , 2002, 21, 2986-2992.	1.1	43
66	12-Te-5 pertelluranes from 1,6-dioxa-6a-tellurapentalenes. Synthesis, structure, and reactivity. <i>Journal of Organic Chemistry</i> , 1983, 48, 5149-5151.	1.7	42
67	Phenylselenotrimethylsilane. A novel source of phenylselenide anion. <i>Tetrahedron Letters</i> , 1978, 19, 5087-5090.	0.7	41
68	12-Te-5 pertelluranes from 1,2-oxatellurolyl-1-ium halides. Synthesis, structure, and reactivity. The quest for delocalization in 10-Te-3 telluranes and 12-Te-5 pertelluranes of thiathiophthene structure. <i>Journal of Organic Chemistry</i> , 1986, 51, 1692-1700.	1.7	41
69	A Stepwise Mechanism for Oxidative Addition of Bromine to Organoselenium(II) and Organotellurium(II) Compounds. <i>Organometallics</i> , 1994, 13, 3338-3345.	1.1	40
70	In Vitro Photodynamic Properties of Chalcogenopyrylium Analogues of the Thiopyrylium Antitumor Agent AA1. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 5123-5135.	2.9	39
71	Chalcogenopyrylium Compounds as Modulators of the ATP-Binding Cassette Transporters P-Glycoprotein (P-gp/ABCB1) and Multidrug Resistance Protein 1 (MRP1/ABCC1). <i>Journal of Medicinal Chemistry</i> , 2012, 55, 4683-4699.	2.9	39
72	Photosensitization of human glioma cells by chalcogenopyrylium dyes. <i>Journal of Neuro-Oncology</i> , 1989, 7, 179-188.	1.4	38

#	ARTICLE	IF	CITATIONS
73	Organotellurium Fluorescence Probes for Redox Reactions: 9-Aryl-3,6-diaminotelluroxanthylum Dyes and Their Telluroxides. <i>Organometallics</i> , 2013, 32, 4321-4333.	1.1	38
74	From Seconds to Femtoseconds: Solar Hydrogen Production and Transient Absorption of Chalcogenorhodamine Dyes. <i>Journal of the American Chemical Society</i> , 2014, 136, 7740-7750.	6.6	38
75	21-Telluraporphyrins. 3. Synthesis, Structure, and Spectral Properties of a 21,21-Dihalo-21-telluraporphyrin. <i>Organometallics</i> , 2004, 23, 4513-4518.	1.1	37
76	Selenorhodamine Dye-Sensitized Solar Cells: Influence of Structure and Surface-Anchoring Mode on Aggregation, Persistence, and Photoelectrochemical Performance. <i>Langmuir</i> , 2016, 32, 1521-1532.	1.6	37
77	pH-Dependent Chalcogenopyrylium Dyes as Potential Sensitizers for Photodynamic Therapy: Selective Retention in Tumors by Exploiting pH Differences between Tumor and Normal Tissue. <i>Photochemistry and Photobiology</i> , 1999, 70, 630-636.	1.3	35
78	Site Selectively Templated and Tagged Xerogels for Chemical Sensors. <i>Analytical Chemistry</i> , 2006, 78, 3165-3170.	3.2	35
79	Tellurapyrylium dyes as catalysts for the conversion of singlet oxygen and water to hydrogen peroxide. <i>Journal of the American Chemical Society</i> , 1990, 112, 4086-4088.	6.6	34
80	Chalcogenoxanthylum photosensitizers for the photodynamic purging of blood-borne viral and bacterial pathogens. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 5927-5935.	1.4	34
81	Tellurapyrylium dyes. 3. Oxidative halogen addition and tellurium-halogen exchange. <i>Organometallics</i> , 1986, 5, 2250-2256.	1.1	33
82	Rate Accelerations of Bromination Reactions with NaBr and H <sub>2</sub> O <sub>2</sub> via the Addition of Catalytic Quantities of Diaryl Ditellurides. <i>Organometallics</i> , 2014, 33, 5571-5581.	1.1	33
83	Mild reductions of oxides of the Group 6a elements sulfur, selenium, and tellurium with (phenylseleno)trimethylsilane. <i>Journal of Organic Chemistry</i> , 1979, 44, 4528-4531.	1.7	32
84	Preparation of 2,6-diphenyl-4H-chalcogenapyran-4-ones. <i>Journal of Organic Chemistry</i> , 1982, 47, 1968-1969.	1.7	32
85	Syntheses of 4H-Thiopyran-4-one 1,1-Dioxides as Precursors to Sulfone-Containing Analogs of Tetracyanoquinodimethane. <i>Journal of Organic Chemistry</i> , 1995, 60, 1665-1673.	1.7	32
86	Enamines from iodine oxidation of trialkylamines. 1. Electrophilic capture by cationic heterocyclic rings. <i>Journal of Organic Chemistry</i> , 1984, 49, 2676-2681.	1.7	30
87	Direct lithiation of chalcogenachromones, -flavones, and -pyranones. The interconversion and electrophilic capture of ring-opened and ring-closed anions. <i>Journal of Organic Chemistry</i> , 1988, 53, 1203-1207.	1.7	30
88	Reaction pathways of telluroxide equivalents. Reductive elimination of hydrogen peroxide from dihydroxytelluranes and oxidation of carbon via intramolecular transfer of oxygen. <i>Organometallics</i> , 1991, 10, 702-712.	1.1	30
89	2,7-Bis-N,N-dimethylaminochalcogenoxanthen-9-ones via Electrophilic Cyclization with Phosphorus Oxychloride. <i>Organometallics</i> , 2005, 24, 3807-3810.	1.1	30
90	Novel 21,23-Ditelluraporphyrins and the First 26,28-Ditellurasapphyrin and 30,33-Ditellurarubyrin. <i>Organometallics</i> , 2010, 29, 3431-3441.	1.1	30

#	ARTICLE	IF	CITATIONS
91	Photocatalytic Aerobic Thiol Oxidation with a Self-Sensitized Tellurorhodamine Chromophore. <i>Organometallics</i> , 2017, 36, 2588-2596.	1.1	30
92	Conducting salts of (telluopyranyl)telluopyrans. <i>Tetrahedron Letters</i> , 1983, 24, 539-542.	0.7	29
93	XPS and tellurium-125 NMR studies of organotellurium compounds. 1. Tellurapyrans, tellurapyranones, tellurapyrylium salts, and their benzo analogs in both the tellurium(II) and tellurium(IV) oxidation states. <i>Organometallics</i> , 1989, 8, 861-865.	1.1	29
94	Addition of disodium chalcogenides to 1,5-bis(trimethylsilyl)penta-1,4-diyne-3-one. Syntheses, structure, and reactivity of the parent $\Delta^4$ -chalcogenapyran-4-ones. <i>Organometallics</i> , 1992, 11, 2157-2162.	1.1	29
95	Selenoxanthenes via Directed Metalations in 2-Arylselenobenzamide Derivatives. <i>Journal of Organic Chemistry</i> , 2003, 68, 3344-3347.	1.7	29
96	Chemical and electrochemical oxidation of CpRe(PAr <sub>3</sub> ) <sub>2</sub> H <sub>2</sub> complexes to give stable 17-electron radical cations. Disproportionation to diamagnetic species via electron-transfer catalysis. <i>Journal of the American Chemical Society</i> , 1987, 109, 5666-5673.	6.6	28
97	Dithiaporphyrin Derivatives as Photosensitizers in Membranes and Cells. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3268-3276.	1.2	28
98	A New Reaction for Organoselenium Compounds: Alkyl Transfer from Diorganoselenium(IV) Dibromides to Alkenoic Acids To Give $\beta^3$ - and $\beta^1$ -Lactones. <i>Organometallics</i> , 2009, 28, 3426-3436.	1.1	28
99	Debrominations of vic-Dibromides with Diorganotellurides. 2. Catalytic Processes in Diorganotelluride. <i>Journal of Organic Chemistry</i> , 1998, 63, 177-180.	1.7	27
100	Core-modified porphyrins. Part 6: Effects of lipophilicity and core structures on physicochemical and biological properties in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 3171-3183.	1.4	27
101	Interaction of Walsh orbitals in trishomocycloheptatrienes and related hydrocarbons. <i>Journal of the American Chemical Society</i> , 1978, 100, 3005-3014.	6.6	26
102	Regiochemistry and stereochemistry of oxirane ring-opening with silyl halides. <i>Tetrahedron Letters</i> , 1982, 23, 2543-2546.	0.7	26
103	Unusual oxidations and reductions in the conversion of tellurapyranones to tellurapyrylium salts. One-electron reductions with diisobutylaluminum hydride. <i>Organometallics</i> , 1988, 7, 1122-1126.	1.1	26
104	Multiplex imaging of live breast cancer tumour models through tissue using handheld surface enhanced spatially offset resonance Raman spectroscopy (SESORRS). <i>Chemical Communications</i> , 2018, 54, 8530-8533.	2.2	26
105	Preparation of unnatural tellurium analogs of naturally occurring chromones and flavones. Control of ipso vs. ortho acylation, selective demethylation, and olefin-forming condensation reactions in benzo[b]tellurapyranones. <i>Organometallics</i> , 1988, 7, 2188-2197.	1.1	25
106	Debrominations of vic-Dibromides with Diorganotellurides. 1. Stereoselectivity, Relative Rates, and Mechanistic Implications. <i>Journal of Organic Chemistry</i> , 1998, 63, 169-176.	1.7	25
107	A Microwave-Assisted Synthesis of Julolidine-9-carboxamide Derivatives and Their Conversion to Chalcogenoxanthenes via Directed Metalation. <i>Journal of Organic Chemistry</i> , 2007, 72, 2690-2693.	1.7	25
108	Trimethylsilyl iodide. preparation from and catalytic behavior with phenylselenotrimethylsilane. <i>Tetrahedron Letters</i> , 1979, 20, 4189-4192.	0.7	24

#	ARTICLE	IF	CITATIONS
109	Electronic Substituent Effects in Quenching of $^{1}O_2$ by Diaryl Tellurides. <i>Organometallics</i> , 1997, 16, 4386-4391.	1.1	24
110	Chalcogenopyranones from disodium chalcogenide additions to 1,4-dipentadiynones. The role of enol ethers as intermediates. <i>Journal of Heterocyclic Chemistry</i> , 1999, 36, 707-717.	1.4	24
111	Structure-activity studies of uptake and phototoxicity with heavy-chalcogen analogues of tetramethylrosamine in vitro in chemosensitive and multidrug-resistant cells. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 6394-6403.	1.4	24
112	Synthesis of analogues of a flexible thiopyrylium photosensitizer for purging blood-borne pathogens and binding mode and affinity studies of their complexes with DNA. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 4406-4418.	1.4	24
113	Functionalisation of hollow gold nanospheres for use as stable, red-shifted SERS nanotags. <i>Nanoscale</i> , 2015, 7, 6075-6082.	2.8	23
114	Surface enhanced resonance Raman spectroscopy (SERRS) for probing through plastic and tissue barriers using a handheld spectrometer. <i>Analyst</i> , 2018, 143, 5965-5973.	1.7	23
115	Importance of Singlet Oxygen in Photocatalytic Reactions of 2-Aryl-1,2,3,4-tetrahydroisoquinolines Using Chalcogenorosamine Photocatalysts. <i>Organometallics</i> , 2019, 38, 2431-2442.	1.1	23
116	.DELTA.4,4'-4-Telluropyranyl-4H-telluropyrans. 1. Tellurosulfides and tellurium-sulfur exchange. <i>Journal of Organic Chemistry</i> , 1982, 47, 1146-1148.	1.7	22
117	Tellurium-centered radical cations. 1. The 1,3-ditellurole radical cation by chemical, electrochemical, and photochemical oxidation. <i>Journal of the American Chemical Society</i> , 1985, 107, 6298-6304.	6.6	21
118	X-ray photoelectron spectroscopy and tellurium-125 NMR studies of organotellurium compounds. II. Oxatellurolylium halides and dioxatellurapentalenes and their products of oxidative halogen addition. <i>Organometallics</i> , 1989, 8, 866-870.	1.1	21
119	Reductive elimination of chlorine from dichlorotellurium(IV) compounds. Kinetic studies in tetrachloroethane and acetonitrile. <i>Organometallics</i> , 1993, 12, 2496-2504.	1.1	21
120	$^1H$ NMR Exchange Reactions in Tellurium(IV) Derivatives with Cleavage of Te-N Bonds. <i>Organometallics</i> , 1995, 14, 5258-5262.	1.1	21
121	Dendrimeric Organotelluride Catalysts for the Activation of Hydrogen Peroxide. Improved Catalytic Activity through Statistical and Stereoelectronic Effects. <i>Organometallics</i> , 2003, 22, 2883-2890.	1.1	21
122	A cationic chalcogenoxanthylum photosensitizer effective in vitro in chemosensitive and multidrug-resistant cells. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 8635-8643.	1.4	21
123	Generation of 3- and 5-Lithiothiophene-2-carboxylates via Metal-Halogen Exchange and Their Addition Reactions to Chalcogenoxanthones. <i>Journal of Organic Chemistry</i> , 2007, 72, 2647-2650.	1.7	21
124	Photosensitisers for the photodynamic therapy of cancer and other diseases. <i>Expert Opinion on Therapeutic Patents</i> , 2001, 11, 1849-1860.	2.4	20
125	Switched-On-Flexible Chalcogenopyrylium Photosensitizers. Changes in Photophysical Properties upon Binding to DNA. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9686-9692.	1.2	20
126	Xerogel-Sequestered Silanated Organochalcogenide Catalysts for Bromination with Hydrogen Peroxide and Sodium Bromide. <i>Molecules</i> , 2015, 20, 9616-9639.	1.7	20



#	ARTICLE	IF	CITATIONS
127	Stereocontrolled synthesis, conformational features, and response to thermal activation of the seven possible bis- and trishomocycloheptatrienes. <i>Journal of the American Chemical Society</i> , 1977, 99, 821-827.	6.6	19
128	Synthesis and properties of (E)-2-(acylmethylene)tetrahydrofurans. 6-Hydroxy-1,3-hexanedione equivalents. <i>Journal of Organic Chemistry</i> , 1979, 44, 2073-2077.	1.7	19
129	Electron-accepting molecules containing telluropyranyl groups. The effect of tellurium oxidation state on reduction potentials. <i>Journal of Organic Chemistry</i> , 1987, 52, 2123-2130.	1.7	19
130	Spontaneous multiscale phase separation within fluorinated xerogel coatings for fouling-release surfaces. <i>Biofouling</i> , 2012, 28, 143-157.	0.8	19
131	Selenorhodamine photosensitizers with the Texas-red core for photodynamic therapy of cancer cells. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4501-4507.	1.4	19
132	Sensitive SERS nanotags for use with 1550 nm (retina-safe) laser excitation. <i>Analyst, The</i> , 2016, 141, 5062-5065.	1.7	19
133	Evidence in support of the Corey-Kahn mechanism of quenching of singlet oxygen with organometallic compounds. Oxophilicity and rates of intersystem crossing in organochalcogen compounds. <i>Organometallics</i> , 1992, 11, 2310-2312.	1.1	18
134	Xerogel Coatings Produced by the Sol-Gel Process as Anti-Fouling, Fouling-Release Surfaces: From Lab Bench to Commercial Reality. <i>ChemNanoMat</i> , 2015, 1, 148-154.	1.5	18
135	Longer-Wavelength-Absorbing, Extended Chalcogenorhodamine Dyes. <i>Organometallics</i> , 2016, 35, 1944-1955.	1.1	18
136	Extended rhodamine photosensitizers for photodynamic therapy of cancer cells. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 3908-3917.	1.4	18
137	Lithiation of 1,3-ditelluroles. A striking substituent effect of the phenyl group. <i>Tetrahedron Letters</i> , 1983, 24, 237-240.	0.7	17
138	Electron Transport in 4H-1,1-Dioxo-4-(dicyanomethylidene)thiopyrans. Investigation of x-ray Structures of Neutral Molecules, Electrochemical Reduction to the Anion Radicals, and Absorption Properties and EPR Spectra of the Anion Radicals. <i>Journal of Organic Chemistry</i> , 1995, 60, 1674-1685.	1.7	17
139	A Comparison of Linear Optical Properties and Redox Properties in Chalcogenopyrylium Dyes Bearing Ortho-Substituted Aryl Substituents and tert-Butyl Substituents. <i>Journal of Organic Chemistry</i> , 2003, 68, 1804-1809.	1.7	17
140	Analogues of tetramethylrosamine as transport molecules for and inhibitors of P-glycoprotein-mediated multidrug resistance. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 4625-4631.	1.4	17
141	A comparative study of the photophysics of phenyl, thienyl, and chalcogen substituted rhodamine dyes. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 1417-1432.	1.6	17
142	Oxidation of telluropyrilium dyes with ozone, chlorine, and bromine. Differing regiochemical and kinetic behavior with respect to oxidations of oxygen-, sulfur-, and selenium-containing dyes. <i>Organometallics</i> , 1994, 13, 533-540.	1.1	16
143	Hydrolysis Studies of Chalcogenopyrylium Trimethine Dyes. 1. Product Studies in Alkaline Solution (pH) Tj ETQq1 1,0,784314,rgBT /O	1.7	16
144	Debrominations of vic-Dibromides with Diorganotellurides. 3. Rate Constants, Eyring and Arrhenius Activation Parameters, and Mechanistic Implications. <i>Journal of Organic Chemistry</i> , 1999, 64, 5677-5681.	1.7	16

#	ARTICLE	IF	CITATIONS
145	Chalcogenopyrylium dyes as inhibitors/modulators of P-glycoprotein in multidrug-resistant cells. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 9745-9756.	1.4	16
146	Substituent control of DNA binding modes in a series of chalcogenoxanthylum photosensitizers as determined by isothermal titration calorimetry and topoisomerase I DNA unwinding assay. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 10221-10227.	1.4	16
147	Effects of surface-anchoring mode and aggregation state on electron injection from chalcogenorhodamine dyes to titanium dioxide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 264, 18-25.	2.0	16
148	Chalcogenopyrylium Dyes as Differential Modulators of Organic Anion Transport by Multidrug Resistance Protein 1 (MRP1), MRP2, and MRP4. <i>Drug Metabolism and Disposition</i> , 2013, 41, 1231-1239.	1.7	16
149	Ecofriendly Protection from Biofouling of the Monitoring System at Pantelleria's Cala Gadir Underwater Archaeological Site, Sicily. <i>International Journal of Nautical Archaeology</i> , 2009, 38, 417-421.	0.1	15
150	Radical anion stabilities in 1,6-dioxo-6a-tellurapentalenes and related compounds. The quantum efficiency of photoconduction as a measure of E.degree.. <i>Organometallics</i> , 1987, 6, 1597-1606.	1.1	14
151	Activated Michael Acceptors as Precursors to Heterocycles. 1. 2-Azetidinones from 2-(Arylsulfonyl)propenoyl Chlorides and Amines. <i>Journal of Organic Chemistry</i> , 1998, 63, 5403-5412.	1.7	14
152	A novel asymmetric synthesis of 2-azetidinones from achiral precursors. <i>Tetrahedron Letters</i> , 1999, 40, 585-588.	0.7	14
153	Sensitive SERS nanotags for use with a hand-held 1064nm Raman spectrometer. <i>Royal Society Open Science</i> , 2017, 4, 170422.	1.1	13
154	Multivariate analysis of attachment of biofouling organisms in response to material surface characteristics. <i>Biointerphases</i> , 2017, 12, 051003.	0.6	13
155	The performance of aminoalkyl/fluorocarbon/hydrocarbon-modified xerogel coatings against the marine alga <i>Ectocarpus cruaniorum</i> : relative roles of surface energy and charge. <i>Biofouling</i> , 2013, 29, 171-184.	0.8	12
156	The question of hexahomobenzene automerization. New synthetic approaches to 3-1,4,7-cyclononatriene.. <i>Tetrahedron Letters</i> , 1977, 18, 347-350.	0.7	11
157	Halogenation of 4-Phenyl-3-(phenylsulfonyl)-2-azetidinones with N-Halosuccinimides. Kinetic vs Thermodynamic Control. <i>Journal of Organic Chemistry</i> , 2000, 65, 7203-7207.	1.7	11
158	Selenoxides as Catalysts for Epoxidation and Baeyer-Villiger Oxidation with Hydrogen Peroxide. <i>Synlett</i> , 2006, 2006, 1100-1104.	1.0	11
159	Tellurium-125 coupling to hydrogen, carbon-13, and tellurium-125 nuclei in NMR studies of tellurium-125 enriched 1,3-ditellurole. <i>Organometallics</i> , 1986, 5, 1544-1547.	1.1	10
160	Comparison of the dark and light-induced toxicity of thio and seleno analogues of the thiopyrylium dye AA1. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 2589-2596.	1.4	10
161	Phototoxicity of a core-modified porphyrin and induction of apoptosis. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2006, 85, 155-162.	1.7	10
162	Direct 1270nm Irradiation as an Alternative to Photosensitized Generation of Singlet Oxygen to Induce Cell Death. <i>Photochemistry and Photobiology</i> , 2012, 88, 2-4.	1.3	10

#	ARTICLE	IF	CITATIONS
163	Towards establishing a minimal nanoparticle concentration for applications involving surface enhanced spatially offset resonance Raman spectroscopy (SESORRS) <i>in vivo</i> . <i>Analyst</i> , 2018, 143, 5358-5363.	1.7	10
164	Stepwise Mechanism for Oxidative Addition of Iodine to Organotellurium(II) Compounds As Observed by Stopped-Flow Spectroscopy. <i>Organometallics</i> , 1995, 14, 1442-1449.	1.1	9
165	Thiorhodamines containing amide and thioamide functionality as inhibitors of the ATP-binding cassette drug transporter P-glycoprotein (ABCB1). <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 4290-4302.	1.4	9
166	Luminescence spectroscopy of chalcogen substituted rhodamine cations in vacuo. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 779-784.	1.6	9
167	Novel materials for non-ablative optical recording. <i>Advanced Materials</i> , 1994, 6, 48-51.	11.1	8
168	A Mechanism for Heteroatom Scrambling in the Synthesis of Unsymmetrical Chalcogenopyrylium Trimethine Dyes. <i>Journal of Organic Chemistry</i> , 1995, 60, 6631-6634.	1.7	8
169	Hydrolysis Studies of Chalcogenopyrylium Trimethine Dyes. 2. Chalcogen Atom Effects on the Rates of Hydrolysis of Chalcogenopyrylium Dyes. <i>Journal of Organic Chemistry</i> , 1998, 63, 5716-5721.	1.7	8
170	Probing Nanoscale Chemical Segregation and Surface Properties of Antifouling Hybrid Xerogel Films. <i>Langmuir</i> , 2015, 31, 3510-3517.	1.6	8
171	The performance of hybrid titania/silica-derived xerogels as active antifouling/fouling-release surfaces against the marine alga <i>Ulva linza</i> : <i>in situ</i> generation of hypohalous acids. <i>Biofouling</i> , 2016, 32, 883-896.	0.8	8
172	Design and evaluation of Raman reporters for the Raman-silent region. <i>Nanotheranostics</i> , 2022, 6, 1-9.	2.7	8
173	Hybrid Oxygen-Responsive Reflective Bragg Grating Platforms. <i>Analytical Chemistry</i> , 2012, 84, 1402-1407.	3.2	7
174	Synthesis and Photoelectrochemical Performance of Chalcogenopyrylium Monomethine Dyes Bearing Phosphonate/Phosphonic Acid Substituents. <i>Journal of Organic Chemistry</i> , 2013, 78, 8885-8891.	1.7	7
175	Selective photodepletion of malignant T cells in extracorporeal photopheresis with selenorhodamine photosensitizers. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 3918-3931.	1.4	7
176	Excited State Torsional Processes in Chalcogenopyrylium Monomethine Dyes. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8807-8822.	1.1	7
177	Heavy Atom Effects in Tellurapyrylium Dyes Useful in Photodynamic Therapy and Catalytic Generation of H <sub>2</sub> O <sub>2</sub> . <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1992, 67, 383-404.	0.8	6
178	Intermolecular Charge Separation in Aggregated Rhodamine Dyes Used in Solar Hydrogen Production. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16519-16531.	1.5	6
179	Correlative assays of barnacle cyprid behaviour for the laboratory evaluation of antifouling coatings: a study of surface energy components. <i>Biofouling</i> , 2019, 35, 159-172.	0.8	6
180	Stereoisomeric bishomo-3,5-cycloheptadienyl p-toluenesulfonates as probes of the geometric and conformational dependence to long-range cyclopropyl interaction during acetolysis. <i>Journal of the American Chemical Society</i> , 1977, 99, 828-834.	6.6	5

#	ARTICLE	IF	CITATIONS
181	The fate of bishomocycloheptadienyl cations generated by deamination. <i>Journal of the American Chemical Society</i> , 1977, 99, 834-842.	6.6	5
182	Synthesis, spectral data, and crystal structure of two novel substitution patterns in dithiaporphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 2007, 11, 1-8.	0.4	5
183	Novel Rhodamine Dyes via Suzuki Coupling of Xanthone Triflates with Arylboroxins. <i>Synlett</i> , 2010, 2010, 89-92.	1.0	5
184	The rhodium (I)-catalyzed rearrangement of -1,3-bishomocycloheptatriene. <i>Tetrahedron Letters</i> , 1978, 19, 713-716.	0.7	4
185	Comparative study of syn- and anti-1,5-bishomocycloheptatrien-2-yl radicals and carbocations. <i>Journal of Organic Chemistry</i> , 1978, 43, 1118-1121.	1.7	4
186	Synthetic Routes to 4H-7-Hydroxybenzo[b]tellurin-4-ones. <i>Organometallics</i> , 1998, 17, 3588-3592.	1.1	4
187	Reflective micro-concentrator arrays from holographic photopolymerization: design, fabrication and characterization. <i>Journal of Materials Chemistry</i> , 2012, 22, 25161.	6.7	4
188	Synthesis and protonation studies of syn- and anti-2,4-bishomotropone. Comparison with the behavior of epimeric 2,4-bishomocycloheptatrienols under long- and short-lived ionization conditions. <i>Journal of the American Chemical Society</i> , 1978, 100, 5856-5863.	6.6	3
189	Use of a Red Cell Band 3-Ligand/Antioxidant to Improve Red Cell Storage Properties Following Virucidal Phototreatment with Chalcogenoxanthylum Photosensitizers. <i>Photochemistry and Photobiology</i> , 2006, 82, 1595-1600.	1.3	3
190	Hybrid Solâ€“Gel-Derived Films That Spontaneously Form Complex Surface Topographies. <i>Langmuir</i> , 2016, 32, 10113-10119.	1.6	2
191	Non-Condon Effects in the Resonance Hyper-Raman Scattering of Chalcogen-Substituted Rhodamine Derivatives. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25051-25058.	1.5	2
192	Use of a Red Cell Band 3-Ligand/Antioxidant to Improve Red Cell Storage Properties Following Virucidal Phototreatment with Chalcogenoxanthylum Photosensitizers. <i>Photochemistry and Photobiology</i> , 2006, 82, 1595.	1.3	2
193	Targeting T Cell Bioenergetics by Modulating P-Glycoprotein Selectively Depletes Alloreactive T Cells To Prevent Graft-versus-Host Disease. <i>Journal of Immunology</i> , 2016, 197, 1631-1641.	0.4	1
194	Photodepletion with 2-Se-Cl prevents lethal graft-versus-host disease while preserving antitumor immunity. <i>PLoS ONE</i> , 2020, 15, e0234778.	1.1	1
195	Targeting T Cell Bioenergetics by Modulating P-Glycoprotein Improves Selectivity of Phototherapy. <i>Biology of Blood and Marrow Transplantation</i> , 2016, 22, S89-S90.	2.0	0
196	Core-Modified Porphyrins as Photosensitizers in Photodynamic Therapy. , 2016, , 151-172.		0
197	P-Glycoprotein Modulation Facilitates the Selective Inhibition of Oxidative Phosphorylation in Alloreactive T Cells to Prevent Graft-Versus-Host Disease after Hematopoietic Stem Cell Transplant. <i>Blood</i> , 2015, 126, 1879-1879.	0.6	0