

Georgios Vassilikogiannakis

List of Publications by Year in descending order

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93
papers

4,886
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117453

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123
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123
times ranked

4230
citing authors

#	ARTICLE	IF	CITATIONS
1	The Diels-Alder Reaction in Total Synthesis. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1668-1698.	7.2	1,570
2	Using Singlet Oxygen to Synthesize Polyoxygenated Natural Products from Furans. <i>Accounts of Chemical Research</i> , 2008, 41, 1001-1011.	7.6	287
3	Biomimetic Total Synthesis of Bisorbicillinol, Bisorbibutenolide, Trichodimerol, and Designed Analogues of the Bisorbicillinoids. <i>Journal of the American Chemical Society</i> , 2000, 122, 3071-3079.	6.6	136
4	Furans and singlet oxygen – why there is more to come from this powerful partnership. <i>Chemical Communications</i> , 2014, 50, 15480-15498.	2.2	113
5	Total Synthesis of Colombiasin A. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2482-2486.	7.2	112
6	The Total Synthesis of Coleophomones B, C, and D. <i>Journal of the American Chemical Society</i> , 2005, 127, 8872-8888.	6.6	108
7	Biomimetic Explorations Towards the Bisorbicillinoids: Total Synthesis of Bisorbicillinol, Bisorbibutenolide, and Trichodimerol. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3555-3559.	7.2	87
8	cis-Semihydrogenation of alkynes with amine borane complexes catalyzed by gold nanoparticles under mild conditions. <i>Chemical Communications</i> , 2015, 51, 2384-2387.	2.2	80
9	Total Synthesis of Colombiasin A and Determination of Its Absolute Configuration. <i>Chemistry - A European Journal</i> , 2001, 7, 5359-5371.	1.7	74
10	The power of singlet oxygen chemistry in biomimetic syntheses. <i>Tetrahedron</i> , 2006, 62, 5308-5317.	1.0	74
11	Methylene Blue as a Photosensitizer and Redox Agent: Synthesis of 5-Hydroxy-1-pyrrol-2-ones from Furans. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6283-6287.	7.2	68
12	Green oxidations of furans initiated by molecular oxygen that give key natural product motifs. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 2031.	1.5	63
13	A Versatile Synthesis of Meyers™ Bicyclic Lactams from Furans: Singlet-Oxygen-Initiated Reaction Cascade. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8868-8871.	7.2	61
14	Biomimetic Total Synthesis of Litseaverticillols A, C, D, F, and G: Singlet-Oxygen-Initiated Cascades. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5465-5468.	7.2	60
15	The Total Synthesis of Coleophomones B and C. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3276-3281.	7.2	59
16	One-Pot Transformation of Simple Furans into 4-Hydroxy-2-cyclopentenones in Water. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13201-13205.	7.2	57
17	Photooxygenation of Furylalkylamines: Easy Access to Pyrrolizidine and Indolizidine Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4605-4609.	7.2	55
18	Î³-Spiroketal Î³-Lactones from 2-(Î³-Hydroxyalkyl)furans: Syntheses of epi-Pyrenolides D and Crassalactone D. <i>Organic Letters</i> , 2009, 11, 4556-4559.	2.4	53

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19	One-pot Synthesis of the Tetracyclic Framework of the Aromatic Erythrina Alkaloids from Simple Furans. <i>Organic Letters</i> , 2013, 15, 3714-3717.	2.4	52
20	A Versatile and General One-Pot Method for Synthesizing Bis-spiroketal Motifs. <i>Organic Letters</i> , 2006, 8, 1945-1948.	2.4	50
21	Studies towards Trichodimerol: Novel Cascade Reactions and Polycyclic Frameworks. <i>Chemistry - A European Journal</i> , 1999, 5, 3651-3665.	1.7	49
22	Using water, light, air and spirulina to access a wide variety of polyoxygenated compounds. <i>Green Chemistry</i> , 2012, 14, 601.	4.6	49
23	From Simple Furans to Complex Nitrogen-Bearing Aromatic Polycycles by Means of a Flexible and General Reaction Sequence Initiated by Singlet Oxygen. <i>Chemistry - A European Journal</i> , 2013, 19, 10119-10123.	1.7	44
24	cis-3,4-Dichlorocyclobutene as a Versatile Synthone in Organic Synthesis. <i>Rapid Entry into Complex Polycyclic Systems with Remarkably Stereospecific Reactions</i> We thank Drs. D. H. Huang and G. Siuzdak for their assistance with NMR spectroscopy and mass spectrometry, respectively. This work was financially supported by the National Institutes of Health (USA) and The Skaggs Institute for Chemical Biology, a postdoctoral fellowship from the Skaggs Institute for Research (to V.G.), and grants from Abbott, Amgen, . <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4441.	7.2	42
25	Scope and Limitations of the Photooxidations of 2-(1-Hydroxyalkyl)furans: Synthesis of 2-Hydroxy- <i>exo</i> -brevicomin. <i>Organic Letters</i> , 2011, 13, 1166-1169.	2.4	42
26	A New [2 + 2] Functionalization of C60 with Alkyl-Substituted 1,3-Butadienes: A Mechanistic Approach. Stereochemistry and Isotope Effects. <i>Journal of the American Chemical Society</i> , 1998, 120, 9911-9920.	6.6	41
27	Synthesis of the Spirocyclic Core of the Prunolides Using a Singlet Oxygen-Mediated Cascade Sequence. <i>Organic Letters</i> , 2005, 7, 2357-2359.	2.4	41
28	Singlet-Oxygen-Mediated One-Pot Synthesis of 3-Keto-tetrahydrofurans from 2-(1-Hydroxyalkyl) Furans. <i>Organic Letters</i> , 2009, 11, 313-316.	2.4	41
29	One-pot synthesis of 1-azaspiro frameworks initiated by photooxidation of simple furans. <i>Chemical Communications</i> , 2014, 50, 400-402.	2.2	41
30	Stereochemistry and Isotope Effects of the [2 + 2] Photocycloadditions of Arylalkenes to C60. A Stepwise Mechanism. <i>Journal of the American Chemical Society</i> , 1997, 119, 7394-7395.	6.6	39
31	First Total Synthesis of Pandamarine. <i>Organic Letters</i> , 2015, 17, 3596-3599.	2.4	39
32	Illustrating the Power of Singlet Oxygen Chemistry in a Synthetic Context: Biomimetic Syntheses of Litseaverticillols A-G, I and J and the Structural Reassignment of Litseaverticillol E. <i>Chemistry - A European Journal</i> , 2005, 11, 5899-5907.	1.7	38
33	Spiroperoxy Lactones from Furans in One Pot: Synthesis of (+)-Premnalane A. <i>Organic Letters</i> , 2007, 9, 5585-5588.	2.4	37
34	Mechanism of the [2 + 2] Photocycloaddition of Fullerene C60 with Styrenes. <i>Journal of Organic Chemistry</i> , 2000, 65, 8180-8187.	1.7	35
35	Reaction of Singlet Oxygen with <i>trans</i> -4-Propenylanisole. Formation of [2 + 2] Products with Added Acid. <i>Journal of Organic Chemistry</i> , 2000, 65, 6876-6878.	1.7	32
36	New Synthetic Technology for the Mild and Selective One-Carbon Homologation of Hindered Aldehydes in the Presence of Ketones. <i>Organic Letters</i> , 2000, 2, 1895-1898.	2.4	32

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37	Olefin Metathesis: Remote Substituents Governing the Stereoselectivity of 11-Membered-Ring Formation. <i>Organic Letters</i> , 2004, 6, 205-208.	2.4	32
38	Biomimetic Total Synthesis of Litseaverticillols B, E, I, and J and Structural Reassignment of Litseaverticillol E. <i>Organic Letters</i> , 2004, 6, 2039-2042.	2.4	32
39	One-Pot Transformation of Simple Furans into Octahydroindole Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4020-4023.	7.2	32
40	A Novel Nebulizer-Based Continuous Flow Reactor: Introducing the Use of Pneumatically Generated Aerosols for Highly Productive Photooxidations. <i>ChemPhotoChem</i> , 2017, 1, 173-177.	1.5	32
41	Total synthesis of coleophomone D. Electronic supplementary information (ESI) available: selected physical data for compound 18. See http://www.rsc.org/suppdata/cc/b2/b208236p/ . <i>Chemical Communications</i> , 2002, , 2478-2479.	2.2	29
42	Using singlet oxygen to synthesise a [6,6,5]-bis-spiroketal in one-pot from a simple 2,5-disubstituted furan. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 772.	1.5	29
43	First Total Synthesis of Paracaseolide A. <i>Organic Letters</i> , 2012, 14, 3565-3567.	2.4	29
44	Eosin: a versatile organic dye whose synthetic uses keep expanding. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 3303-3317.	1.5	28
45	[2+2] photocycloadditions of to C60. A step-wise mechanism. <i>Tetrahedron Letters</i> , 1997, 38, 4323-4326.	0.7	27
46	Photooxidations of 2-(β , γ -Dihydroxyalkyl) Furans in Water: Synthesis of DE-Bicycles of the Pectenotoxins. <i>Organic Letters</i> , 2012, 14, 2374-2377.	2.4	26
47	Singlet Oxygen-Induced Furan Oxidation for Site-Specific and Chemoselective Peptide Ligation. <i>Chemistry - A European Journal</i> , 2016, 22, 8457-8461.	1.7	25
48	One-Pot Synthesis of Diverse β -Lactam Scaffolds Facilitated by a Nebulizer-Based Continuous Flow Photoreactor. <i>ChemPhotoChem</i> , 2018, 2, 860-864.	1.5	25
49	Asymmetric and Site-Selective [3 + 2]-Annulations for the Synthesis of High-Value Bicyclic Lactams. <i>Organic Letters</i> , 2018, 20, 1146-1149.	2.4	24
50	Stereochemistry in the Ene Reactions of Singlet Oxygen and Triazolinediones with Allylic Alcohols. A Mechanistic Comparison. <i>Journal of Organic Chemistry</i> , 1999, 64, 4130-4139.	1.7	23
51	Regioselective Ortho Lithiation of 3-Aryl and 3-Styryl Furans. <i>Organic Letters</i> , 2005, 7, 3347-3350.	2.4	23
52	Stereochemistry of the Singlet Oxygenation of Simple Alkenes: A Stereospecific Transformation. <i>Organic Letters</i> , 2008, 10, 3997-4000.	2.4	23
53	Singlet oxygen initiated cascade transformation of a simple difuran into the key ABC-ring motif of the pectenotoxins. <i>Chemical Communications</i> , 2011, 47, 259-261.	2.2	23
54	Chemoselective photooxygenations of furans bearing unprotected amines: their use in alkaloid synthesis. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8636-8640.	1.5	23

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55	Regio- and Stereoselectivity of the [2 + 2] Photocycloaddition of Acyclic Enones to C60. <i>Journal of Organic Chemistry</i> , 1999, 64, 3392-3393.	1.7	21
56	The reticent tautomer: exploiting the interesting multisite and multitype reactivity of 4-pyrrolin-2-ones. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 180-190.	1.5	21
57	Synthesis of Chinensines Aâ€”E. <i>Journal of Organic Chemistry</i> , 2007, 72, 4826-4831.	1.7	20
58	Synthesis of (+)-Zerumin B Using a Regioselective Singlet Oxygen Furan Oxidation. <i>Journal of Organic Chemistry</i> , 2008, 73, 2021-2023.	1.7	20
59	Stereochemistry of the Triazolinedioneâ””Alkene Ene Reaction:Â A Stereospecific Suprafacial Transformation. <i>Journal of the American Chemical Society</i> , 2000, 122, 9540-9541.	6.6	19
60	Singletâ””Oxygenâ””Initiated Tandem Transformation of 2â””Hexylfuran to the Natural Alkaloids Glochidine and Glochidicine. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3304-3306.	1.2	19
61	Isotope Effects and syn Selectivity in the Ene Reaction of Triazolinedione with Conjugated Enones:â””Aziridinium Imide or an Open Intermediate Mechanism?. <i>Organic Letters</i> , 2000, 2, 2245-2248.	2.4	17
62	Regiocontrolled Synthesis of Î³-Hydroxybutenolides via Singlet Oxygen-Mediated Oxidation of 2-Thiophenyl Furans. <i>Journal of Organic Chemistry</i> , 2016, 81, 4406-4411.	1.7	16
63	Merging singlet-oxygen induced furan oxidations with organocatalysis: synthesis of enantiopure cyclopentanones and hydrindanes. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2817-2822.	1.5	15
64	Synthesis of cyclopent-2-enones from furans using a nebulizer-based continuous flow photoreactor. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 10151-10155.	1.5	14
65	Singlet Oxygen-Mediated Synthesis of <i>Bis</i> -spiroketals Found in Azaspiracids. <i>Organic Letters</i> , 2014, 16, 3150-3153.	2.4	13
66	Photooxygenation of Furylalkylamines: Easy Access to Pyrrolizidine and Indolizidine Scaffolds. <i>Angewandte Chemie</i> , 2016, 128, 4681-4685.	1.6	13
67	The Power of Triplet and Singlet Oxygen in Synthesis: 2-Oxindoles, 3-Hydroxy-2-oxindoles, and Isatins from Furans. <i>Organic Letters</i> , 2018, 20, 3631-3634.	2.4	13
68	Singlet-Oxygen-Mediated Synthesis of Pandanusine A and Pandalizine C and Structural Revision of Pandanusine B. <i>Organic Letters</i> , 2019, 21, 5467-5470.	2.4	13
69	Pectenotoxin's ABCDE Ring System: A Complex Target to Test the Potential of Singlet Oxygen Super Cascades as Tools for Synthesis. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 7240-7243.	1.2	12
70	Remote Î¼- secondary isotope effect in the reaction of tetracyanoethylene with 2,5-dimethyl-2,4-hexadiene. A step-wise mechanism. <i>Tetrahedron Letters</i> , 1996, 37, 3075-3078.	0.7	11
71	Stereochemistry and steric isotope effect on the [2+2] photocycloaddition of Î²,Î²-dimethyl-p-methoxystyrene to C60: the nature of the transition state structures. <i>Tetrahedron Letters</i> , 2000, 41, 4667-4670.	0.7	11
72	Total Synthesis and Structural Revision of (+)-Yaoshanenolide B. <i>Organic Letters</i> , 2016, 18, 4982-4985.	2.4	11

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73	One-Pot Transformation of Simple Furans into Octahydroindole Scaffolds. <i>Angewandte Chemie</i> , 2017, 129, 4078-4081.	1.6	11
74	Multi-Photocatalyst Cascades: Merging Singlet Oxygen Photooxygenations with Photoredox Catalysis for the Synthesis of Alkaloid Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4335-4341.	7.2	11
75	Primary and Secondary Isotope Effects in the Photooxidation of 2,5-Dimethyl-2,4-hexadiene. Elucidation of the Reaction Energy Profile. <i>Journal of Organic Chemistry</i> , 1998, 63, 6390-6393.	1.7	10
76	5-Hydroxy-pyrrolone based building blocks as maleimide alternatives for protein bioconjugation and single-site multi-functionalization. <i>Chemical Science</i> , 2021, 12, 5246-5252.	3.7	10
77	Using singlet oxygen to synthesise the CDE-ring system of the pectenotoxins. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 537-541.	1.5	8
78	Rapid Access to β -Alkyl- γ -Alkoxybutyrolactams Using Triplet and Singlet Oxygen. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4523-4526.	1.2	7
79	Vinylogous Reactivity of Cyclic α -Enones: Organocatalysed Asymmetric Addition to α -Enals to Synthesize Fused Carbocycles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6742-6746.	7.2	7
80	One-Pot Transformation of Furans into 1-Azaspirocyclic Alkaloid Frameworks Induced by Visible Light. <i>Organic Letters</i> , 2021, 23, 5354-5358.	2.4	7
81	Access to high value sp ³ -rich frameworks using photocatalyzed [2 + 2]-cycloadditions of β -alkylidene- γ -lactams. <i>Chemical Communications</i> , 2022, 58, 8085-8088.	2.2	7
82	Diastereoselective ene reactions of triazolinediones with chiral allylic alcohols. Evidence for a hydroxyl-enophile steering effect. <i>Tetrahedron Letters</i> , 1998, 39, 2393-2396.	0.7	6
83	Singlet Oxygen: Chemistry, Applications and Challenges Ahead. <i>ChemPhotoChem</i> , 2018, 2, 510-511.	1.5	4
84	Multi-Photocatalyst Cascades: Merging Singlet Oxygen Photooxygenations with Photoredox Catalysis for the Synthesis of Alkaloid Frameworks. <i>Angewandte Chemie</i> , 2021, 133, 4381-4387.	1.6	4
85	Singlet oxygen-mediated transformation of furans into aromatic nitrogen-containing polycycles in water. <i>Arkivoc</i> , 2015, 2015, 154-166.	0.3	4
86	Sequential Visible Light-Induced Reactions Using Different Photocatalysts: Transformation of Furans into α -Pyridones via β -Lactams Using a New Ring Expansion Reaction. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	4
87	Singlet Oxygen and Dyes: Synthesis with Visible Light is Where the Future Lies. <i>ChemPhotoChem</i> , 2020, 4, 385-387.	1.5	3
88	A mechanistic comparison between [2+2] and [4+2] cycloadditions of tetracyanoethylene to 2,7-dimethyl-2,trans-4,6-octatriene. A very remote secondary H/D isotope effect. <i>Tetrahedron Letters</i> , 1998, 39, 8891-8894.	0.7	2
89	Vinylogous Reactivity of Cyclic α -Enones: Organocatalysed Asymmetric Addition to α -Enals to Synthesize Fused Carbocycles. <i>Angewandte Chemie</i> , 2019, 131, 6814-6818.	1.6	2
90	Total Synthesis of Colombiasin A This work was financially supported by the National Institutes of Health (USA) and The Skaggs Institute for Chemical Biology, postdoctoral fellowships from Bayer AG (to R.K. and W.M.), and grants from Abbott, Amgen, ArrayBiopharma, Boehringer-Ingelheim, Glaxo, Hoffmann-La Roche, DuPont, Merck, Novartis, Pfizer, and Schering Plough.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2482-2486.	7.2	2

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91	Mechanistic studies in the reaction of 4-phenyl-1,2,4-triazoline-3,5-dione with 2,5-dimethyl-2,4-hexadiene. Journal of Heterocyclic Chemistry, 1996, 33, 993-995.	1.4	1
92	Total Synthesis of Colombiasin A and Determination of Its Absolute Configuration. Chemistry - A European Journal, 2002, 8, 2214.	1.7	1
93	Regioselective ortho-Lithiation of 3-Aryl and 3-Styryl Furans.. ChemInform, 2005, 36, no.	0.1	0