Jon D Rainier

List of Publications by Year
in descending order

83 papers	3,652 citations	94433 37 h-index	144013 57 g-index
90 all docs	90 docs citations	90 times ranked	2770 citing authors

#	Article	IF	Citations
1	Dorsal Root Ganglion Neurons Innervating Skeletal Muscle Respond to Physiological Combinations of Protons, ATP, and Lactate Mediated by ASIC, P2X, and TRPV1. Journal of Neurophysiology, 2008, 100, 1184-1201.	1.8	246
2	Acid-Sensing Ion Channel-1a in the Amygdala, a Novel Therapeutic Target in Depression-Related Behavior. Journal of Neuroscience, 2009, 29, 5381-5388.	3.6	146
3	ASIC1 and ASIC3 Play Different Roles in the Development of Hyperalgesia After Inflammatory Muscle Injury. Journal of Pain, 2010, 11, 210-218.	1.4	144
4	C-Glycosides to Fused Polycyclic Ethers. A Formal Synthesis of (Â±)-Hemibrevetoxin B. Journal of Organic Chemistry, 2001, 66, 1380-1386.	3.2	103
5	The Total Synthesis of Gambierol. Journal of the American Chemical Society, 2005, 127, 848-849.	13.7	100
6	An Iterative Approach to Fused Ether Ring Systems. Journal of Organic Chemistry, 1998, 63, 5310-5311.	3.2	98
7	C-Glycosides to fused polycyclic ethers. Tetrahedron, 2002, 58, 1997-2009.	1.9	96
8	Aluminum- and Boron-Mediated C-Glycoside Synthesis from 1,2-Anhydroglycosides. Organic Letters, 2000, 2, 2707-2709.	4.6	89
9	Total Synthesis of Gambierol: The Generation of the Aâ€“C and Fâ€“H Subunits by Using a C-Glycoside Centered Strategy. Chemistry - A European Journal, 2006, 12, 1736-1746.	3.3	88
10	Gambierol, a toxin produced by the dinoflagellate Gambierdiscus toxicus, is a potent blocker of voltage-gated potassium channels. Toxicon, 2008, 51, 974-983.	1.6	83
11	Cascades to Substituted Indoles. Journal of Organic Chemistry, 2000, 65, 6213-6216.	3.2	82
12	An Expeditious Synthesis of C(3)â^'N(1â€²) Heterodimeric Indolines. Journal of the American Chemical Society, 2008, 130, 12894-12895.	13.7	80
13	Cyclopropylazetoindolines as Precursors to C(3)-Quaternary-Substituted Indolines. Journal of the American Chemical Society, 2010, 132, 8282-8284.	13.7	79
14	Tremorgenic Indole Alkaloids. The Total Synthesis of (â^')-Penitrem D. Journal of the American Chemical Society, 2003, 125, 8228-8237.	13.7	74
15	The Synthesis and Chemoselective Reactivity of 3-Aminocyclopentadienones. Journal of Organic Chemistry, 2000, 65, 7272-7276.	3.2	73
16	Synthesis and Chemistry of Quinone Methide Models for the Anthracycline Antitumor Antibiotics. Journal of Organic Chemistry, 1997, 62, 5884-5892.	3.2	71
17	Olefinic Ester and Diene Ring-Closing Metathesis Using a Reduced Titanium Alkylidene. Journal of the American Chemical Society, 2007, 129, 12604-12605.	13.7	69
18	Regioselective Ring-Opening/Cross-Metathesis Reactions of Norbornene Derivatives with Electron-Rich Olefins. Organic Letters, 2005, 7, 131-133.	4.6	68

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19	C-Glycosides to Fused Polycyclic Ethers. An Efficient Entry into the Aâ˜D Ring System of Gambierol. Organic Letters, 2001, 3, 2919-2922.	4.6	67
20	An isonitrile-alkyne cascade to di-substituted indoles. Tetrahedron Letters, 1999, 40, 6325-6327.	1.4	66
21	2-Thioindoles as Precursors to Spiro-Fused Indolines: Synthesis of (Â±)-Dehaloperophoramidine. Angewandte Chemie - International Edition, 2006, 45, 4317-4320.	13.8	66
22	Total Synthesis of Kapakahine E and F. Organic Letters, 2010, 12, 2154-2157.	4.6	65
23	Synthesis and Chemoselective Reactivity of 3-Aminocyclopentadienones. Organic Letters, 1999, 1, 2037-2039.	4.6	64
24	A Highly Efficient Synthesis of the Hemibrevetoxin B Ring System. Organic Letters, 2000, 2, 231-234.	4.6	59
25	Enol etherâ€“olefin ring closing metathesis using the Grubbs ruthenium imidazole catalyst. Tetrahedron Letters, 2001, 42, 179-181.	1.4	56
26	Total Synthesis of Gambierol: Subunit Coupling and Completion. Chemistry - A European Journal, 2006, 12, 1747-1753.	3.3	56
27	Synthesis of an Fâ˜H Gambierol Subunit Using aC-Glycoside-Centered Strategy. Organic Letters, 2003, 5, 913-916.	4.6	55
28	A polyether biotoxin binding site on the lipid-exposed face of the pore domain of Kv channels revealed by the marine toxin gambierol. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9896-9901.	7.1	52
29	TRPV1 as a key determinant in ciguatera and neurotoxic shellfish poisoning. Biochemical and Biophysical Research Communications, 2007, 361, 214-217.	2.1	50
30	Sulfur Ylide-Initiated Thio-Claisen Rearrangements. The Synthesis of Highly Substituted Indolines. Journal of Organic Chemistry, 2003, 68, 993-996.	3.2	49
31	Influence of Lipid-Soluble Gating Modifier Toxins on Sodium Influx in Neocortical Neurons. Journal of Pharmacology and Experimental Therapeutics, 2008, 326, 604-613.	2.5	48
32	Formation of Carbon-Carbon Bonds via Quinone Methide-Initiated Cyclization Reactions. Journal of Organic Chemistry, 1994, 59, 6322-6337.	3.2	47
33	Ring-Opening/Ring-Closing Metathesis (RORCM) Reactions of 7-Azanorbornene Derivatives. An Entry into Perhydroindolines. Organic Letters, 2006, 8, 459-462.	4.6	46
34	Highly Diastereoselective Sulfonium Ylide Rearrangements to Quaternary Substituted Indolines. Angewandte Chemie - International Edition, 2008, 47, 5374-5377.	13.8	46
35	A highly efficient iterative approach to fused ether ring systems. Tetrahedron Letters, 1998, 39, 9601-9604.	1.4	45
36	Synthesis of an Aâ˜E Gambieric Acid Subunit with Use of a C-Glycoside Centered Strategy. Organic Letters, 2007, 9, 2227-2230.	4.6	45

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37	Total Synthesis of Brevenal. Journal of the American Chemical Society, 2011, 133, 3208-3216.	13.7	45
38	The Synthesis of Indoline and Benzofuran Scaffolds Using a Suzukiâ€“Miyaura Coupling/Oxidative Cyclization Strategy. Organic Letters, 2013, 15, 4426-4429.	4.6	40
39	Olefinic-ester cyclizations using Takaiâ€“Utimoto reduced titanium alkylidenes. Tetrahedron Letters, 2005, 46, 7209-7211.	1.4	38
40	Synthesis of (2R, 3R)-1,4-dimethoxy-1,1,4,4-tetraphenyl-2,3-butanediol: A new C2-symmetric vicinal diol from dimethyl L-tartrate. Tetrahedron, 1990, 46, 4165-4170.	1.9	35
41	Polyene cyclizations to indole diterpenes. The first synthesis of (+)-emindole SA using a biomimetic approach. Tetrahedron Letters, 2000, 41, 9419-9423.	1.4	35
42	The Diastereoselective Synthesis of Quaternary Substituted Thioindolines from Sulfur Ylide Intermediates. Journal of Organic Chemistry, 2005, 70, 746-748.	3.2	34
43	Highly Regioselective Ring-Opening/Cross-Metathesis Reactions of 2-Sulfonylnorbornene Derivatives. Organic Letters, 2004, 6, 1625-1627.	4.6	33
44	Gambierol Inhibition of Voltage-Gated Potassium Channels Augments Spontaneous Ca²⁺ Oscillations in Cerebrocortical Neurons. Journal of Pharmacology and Experimental Therapeutics, 2014, 350, 615-623.	2.5	33
45	Harnessing Glycalâ€Epoxide Rearrangements: The Generation of the AB, EF, and IJâ€...Rings of Adriatoxin. Angewandte Chemie - International Edition, 2008, 47, 8055-8058.	13.8	29
46	Dimerization of visual pigments in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9093-9098.	7.1	29
47	A Novel Anionic Condensation, Fragmentation, and Elimination Reaction of Bicyclo[2.2.1]heptenone Ring Systems. Organic Letters, 1999, 1, 27-30.	4.6	27
48	Proteolytic Degradation and Inflammation Play Critical Roles in Polypoidal Choroidal Vasculopathy. American Journal of Pathology, 2017, 187, 2841-2857.	3.8	27
49	[2+2+1] Cycloadditions of ynol ethers. The synthesis of iron complexes of 3-alkoxycyclopentadienones. Tetrahedron Letters, 2001, 42, 6987-6990.	1.4	25
50	Diastereoselective synthesis of quaternary substituted thioindolines from sulfur ylide intermediates. Tetrahedron: Asymmetry, 2003, 14, 911-915.	1.8	25
51	Reductive cyclization of quinone methides. Journal of Organic Chemistry, 1992, 57, 6883-6890.	3.2	24
52	The ladder-shaped polyether toxin gambierol anchors the gating machinery of Kv3.1 channels in the resting state. Journal of General Physiology, 2013, 141, 359-369.	1.9	24
53	The Use of Sulfur Ylides in the Synthesis of Substituted Indoles. Organic Letters, 2001, 3, 2407-2409.	4.6	22
54	Retinal bioavailability and functional effects of a synthetic very-long-chain polyunsaturated fatty acid in mice. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22

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55	Substitution and Remote Protecting Group Influence on the Oxidation/Addition of Î±-Substituted 1,2-Anhydroglycosides:â€‰ A Novel Entry intoC-Ketosides. Organic Letters, 2005, 7, 1141-1144.	4.6	21
56	Anionic ring expansion reactions of oxabicyclo[4.2.1]heptenones. An efficient entry into the carbon framework of oxygenated cembranoids. Tetrahedron, 2001, 57, 8029-8037.	1.9	19
57	Vinyl Diazophosphonates as Precursors to Quaternary Substituted Indolines and Cyclopentenes. Organic Letters, 2011, 13, 700-702.	4.6	19
58	Two-Directional Olefinic-Ester Ring-Closing Metathesis using Reduced Ti Alkylidenes. A Rapid Entry into Polycyclic Ether Skeletons. Organic Letters, 2009, 11, 237-239.	4.6	18
59	The Role of Asynchronous Bond Formation in the Diastereoselective Epoxidation of Cyclic Enol Ethers:Â A Density Functional Theory Study. Journal of Organic Chemistry, 2006, 71, 5565-5573.	3.2	16
60	Total Syntheses of Kapakahines E and F. Israel Journal of Chemistry, 2011, 51, 473-482.	2.3	16
61	Tremorgenic Indole Alkaloids. Studies Directed toward the Assembly of the A, F, and I Rings of Penitrem D:Â Observation of an Unexpected Stereochemical Outcome. Organic Letters, 1999, 1, 1263-1266.	4.6	15
62	Olefinic-Lactone Cyclizations to Macrocycles. Organic Letters, 2009, 11, 493-495.	4.6	15
63	Photoelectrocyclization Reactions of Conjugated Cycloalkenones: Scope and Reactivity. Journal of Organic Chemistry, 2020, 85, 5449-5463.	3.2	15
64	Tremorgenic Indole Alkaloids. 10. An Improved Asymmetric Synthesis of a Tricyclic Common Intermediate. Israel Journal of Chemistry, 1997, 37, 69-80.	2.3	14
65	Anionic Two-Carbon Ring Expansions of Oxabicyclo[2.2.1]heptenes and Oxabicyclo[4.2.1]nonenes. Organic Letters, 1999, 1, 1161-1163.	4.6	12
66	Fluorescent kapakahines serve as non-toxic probes for live cell Golgi imaging. Life Sciences, 2015, 136, 163-167.	4.3	12
67	Synthesis of the ABCDEF and FGHI ring system of yessotoxin and adriatoxin. Journal of Antibiotics, 2016, 69, 259-272.	2.0	12
68	Pyridone photoelectrocyclizations to pyridophenanthrenes. Tetrahedron, 2017, 73, 4786-4789.	1.9	12
69	Olefinic-Amide and Olefinic-Lactam Cyclizations. Organic Letters, 2009, 11, 3774-3776.	4.6	11
70	Reactivity of Vinyl Phosphonate Containing Diazoesters: Formation, Reactivity, and Utility. Organic Letters, 2015, 17, 266-269.	4.6	11
71	Photoelectrocyclization Reactions of Amidonaphthoquinones. Journal of Organic Chemistry, 2020, 85, 4298-4311.	3.2	10
72	Concise Seven-Membered Oxepene/Oxepane Synthesis â€“ Structural Motifs in Natural and Synthetic Products. Synthesis, 2019, 51, 3529-3535.	2.3	8

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73	An anionic condensation and fragmentation approach to substituted 3-pyrrolines. Tetrahedron Letters, 2002, 43, 8913-8915.	1.4	7
74	Stereodivergent Photoelectrocyclization Reactions of Bis-aryl Cycloalkenones: Intercepting Photoelectrocyclization Intermediates with Acid. Organic Letters, 2019, 21, 8611-8614.	4.6	7
75	The synthesis of the very long chain polyunsaturated fatty acid (VLC-PUFA) 32:6 n-3. Organic and Biomolecular Chemistry, 2021, 19, 5563-5566.	2.8	7
76	Iodohexahydropyridoindolones. Formation and reactivity. Tetrahedron Letters, 2015, 56, 3538-3540.	1.4	5
77	Voltage-sensor conformation shapes the intra-membrane drug binding site that determines gambierol affinity in Kv channels. Neuropharmacology, 2016, 107, 160-167.	4.1	5
78	Disruption of Rhodopsin Dimerization in Mouse Rod Photoreceptors by Synthetic Peptides Targeting Dimer Interface. Methods in Molecular Biology, 2018, 1753, 115-128.	0.9	5
79	The Synthesis of Conjugated Bis-Aryl Vinyl Substrates and Their Photoelectrocyclization Reactions towards Phenanthrene Derivatives. Synthesis, 2021, 53, 1200-1212.	2.3	5
80	Gambierol and n-alkanols inhibit Shaker Kv channel via distinct binding sites outside the K+ pore. Toxicon, 2016, 120, 57-60.	1.6	3
81	Biphenyl Cyclobutenone Photoelectrocyclizations. Journal of Organic Chemistry, 2021, 86, 15164-15176.	3.2	2
82	The one-pot synthesis of amidonapthoquinones from aminonaphthoquinones. Tetrahedron Letters, 2020, 61, 151800.	1.4	1
83	Chapter 5 Application of C-glycosides in the total synthesis of (â^')-gambierol. Strategies and Tactics in Organic Synthesis, 2008, 7, 154-218.	0.1	0