

Jon D Rainier

List of Publications by Year in descending order

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83
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3,652
citations

94433

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all docs

90
docs citations

90
times ranked

2770
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Biphenyl Cyclobutenone Photoelectrocyclizations. Journal of Organic Chemistry, 2021, 86, 15164-15176.	3.2	2
3	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
4	The Synthesis of Conjugated Bis-Aryl Vinyl Substrates and Their Photoelectrocyclization Reactions towards Phenanthrene Derivatives. Synthesis, 2021, 53, 1200-1212.	2.3	5
5	Photoelectrocyclization Reactions of Conjugated Cycloalkenones: Scope and Reactivity. Journal of Organic Chemistry, 2020, 85, 5449-5463.	3.2	15
6	The one-pot synthesis of amidonaphthoquinones from aminonaphthoquinones. Tetrahedron Letters, 2020, 61, 151800.	1.4	1
7	Photoelectrocyclization Reactions of Amidonaphthoquinones. Journal of Organic Chemistry, 2020, 85, 4298-4311.	3.2	10
8	Stereodivergent Photoelectrocyclization Reactions of Bis-aryl Cycloalkenones: Intercepting Photoelectrocyclization Intermediates with Acid. Organic Letters, 2019, 21, 8611-8614.	4.6	7
9	Concise Seven-Membered Oxepene/Oxepane Synthesis " Structural Motifs in Natural and Synthetic Products. Synthesis, 2019, 51, 3529-3535.	2.3	8
10	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
11	Proteolytic Degradation and Inflammation Play Critical Roles in Polypoidal Choroidal Vasculopathy. American Journal of Pathology, 2017, 187, 2841-2857.	3.8	27
12	Pyridone photoelectrocyclizations to pyridophenanthrenes. Tetrahedron, 2017, 73, 4786-4789.	1.9	12
13	Gambierol and n-alkanols inhibit Shaker Kv channel via distinct binding sites outside the K+ pore. Toxicon, 2016, 120, 57-60.	1.6	3
14	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
15	Synthesis of the ABCDEF and FGHI ring system of yessotoxin and adriatoxin. Journal of Antibiotics, 2016, 69, 259-272.	2.0	12
16	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
17	Iodohexahydropyridoindolones. Formation and reactivity. Tetrahedron Letters, 2015, 56, 3538-3540.	1.4	5
18	Fluorescent kapakahines serve as non-toxic probes for live cell Golgi imaging. Life Sciences, 2015, 136, 163-167.	4.3	12

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19	Reactivity of Vinyl Phosphonate Containing Diazoesters: Formation, Reactivity, and Utility. <i>Organic Letters</i> , 2015, 17, 266-269.	4.6	11
20	Gambierol Inhibition of Voltage-Gated Potassium Channels Augments Spontaneous Ca ²⁺ Oscillations in Cerebrocortical Neurons. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 350, 615-623.	2.5	33
21	The Synthesis of Indoline and Benzofuran Scaffolds Using a Suzuki-Miyaura Coupling/Oxidative Cyclization Strategy. <i>Organic Letters</i> , 2013, 15, 4426-4429.	4.6	40
22	The ladder-shaped polyether toxin gambierol anchors the gating machinery of Kv3.1 channels in the resting state. <i>Journal of General Physiology</i> , 2013, 141, 359-369.	1.9	24
23	Total Synthesis of Brevenal. <i>Journal of the American Chemical Society</i> , 2011, 133, 3208-3216.	13.7	45
24	Total Syntheses of Kapakahines E and F. <i>Israel Journal of Chemistry</i> , 2011, 51, 473-482.	2.3	16
25	Vinyl Diazophosphonates as Precursors to Quaternary Substituted Indolines and Cyclopentenes. <i>Organic Letters</i> , 2011, 13, 700-702.	4.6	19
26	Total Synthesis of Kapakahine E and F. <i>Organic Letters</i> , 2010, 12, 2154-2157.	4.6	65
27	Cyclopropylazetoinolines as Precursors to C(3)-Quaternary-Substituted Indolines. <i>Journal of the American Chemical Society</i> , 2010, 132, 8282-8284.	13.7	79
28	ASIC1 and ASIC3 Play Different Roles in the Development of Hyperalgesia After Inflammatory Muscle Injury. <i>Journal of Pain</i> , 2010, 11, 210-218.	1.4	144
29	A polyether biotoxin binding site on the lipid-exposed face of the pore domain of Kv channels revealed by the marine toxin gambierol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9896-9901.	7.1	52
30	Acid-Sensing Ion Channel-1a in the Amygdala, a Novel Therapeutic Target in Depression-Related Behavior. <i>Journal of Neuroscience</i> , 2009, 29, 5381-5388.	3.6	146
31	Olefinic-Lactone Cyclizations to Macrocycles. <i>Organic Letters</i> , 2009, 11, 493-495.	4.6	15
32	Two-Directional Olefinic-Ester Ring-Closing Metathesis using Reduced Ti Alkylidenes. A Rapid Entry into Polycyclic Ether Skeletons. <i>Organic Letters</i> , 2009, 11, 237-239.	4.6	18
33	Olefinic-Amide and Olefinic-Lactam Cyclizations. <i>Organic Letters</i> , 2009, 11, 3774-3776.	4.6	11
34	Highly Diastereoselective Sulfonium Ylide Rearrangements to Quaternary Substituted Indolines. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5374-5377.	13.8	46
35	Harnessing Glycal-Epoxy Rearrangements: The Generation of the AB, EF, and I...Rings of Adriatoxin. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8055-8058.	13.8	29
36	An Expedient Synthesis of C(3)-N(1) Heterodimeric Indolines. <i>Journal of the American Chemical Society</i> , 2008, 130, 12894-12895.	13.7	80

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37	Gambierol, a toxin produced by the dinoflagellate <i>Gambierdiscus toxicus</i> , is a potent blocker of voltage-gated potassium channels. <i>Toxicon</i> , 2008, 51, 974-983.	1.6	83
38	Chapter 5 Application of C-glycosides in the total synthesis of (âˆ™)-gambierol. <i>Strategies and Tactics in Organic Synthesis</i> , 2008, 7, 154-218.	0.1	0
39	Dorsal Root Ganglion Neurons Innervating Skeletal Muscle Respond to Physiological Combinations of Protons, ATP, and Lactate Mediated by ASIC, P2X, and TRPV1. <i>Journal of Neurophysiology</i> , 2008, 100, 1184-1201.	1.8	246
40	Influence of Lipid-Soluble Gating Modifier Toxins on Sodium Influx in Neocortical Neurons. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 326, 604-613.	2.5	48
41	TRPV1 as a key determinant in ciguatera and neurotoxic shellfish poisoning. <i>Biochemical and Biophysical Research Communications</i> , 2007, 361, 214-217.	2.1	50
42	Synthesis of an Aâˆ™E Gambieric Acid Subunit with Use of a C-Glycoside Centered Strategy. <i>Organic Letters</i> , 2007, 9, 2227-2230.	4.6	45
43	Olefinic Ester and Diene Ring-Closing Metathesis Using a Reduced Titanium Alkylidene. <i>Journal of the American Chemical Society</i> , 2007, 129, 12604-12605.	13.7	69
44	The Role of Asynchronous Bond Formation in the Diastereoselective Epoxidation of Cyclic Enol Ethers: A Density Functional Theory Study. <i>Journal of Organic Chemistry</i> , 2006, 71, 5565-5573.	3.2	16
45	Ring-Opening/Ring-Closing Metathesis (RORCM) Reactions of 7-Azanorbornene Derivatives. An Entry into Perhydroindolines. <i>Organic Letters</i> , 2006, 8, 459-462.	4.6	46
46	Total Synthesis of Gambierol: The Generation of the Aâ€C and Fâ€H Subunits by Using a C-Glycoside Centered Strategy. <i>Chemistry - A European Journal</i> , 2006, 12, 1736-1746.	3.3	88
47	Total Synthesis of Gambierol: Subunit Coupling and Completion. <i>Chemistry - A European Journal</i> , 2006, 12, 1747-1753.	3.3	56
48	2-Thioindoles as Precursors to Spiro-Fused Indolines: Synthesis of (Â±)-Dehaloperophoramidine. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4317-4320.	13.8	66
49	Olefinic-ester cyclizations using Takaiâ€™Utimoto reduced titanium alkylidenes. <i>Tetrahedron Letters</i> , 2005, 46, 7209-7211.	1.4	38
50	Substitution and Remote Protecting Group Influence on the Oxidation/Addition of Î±-Substituted 1,2-Anhydroglycosides: A Novel Entry into C-Ketosides. <i>Organic Letters</i> , 2005, 7, 1141-1144.	4.6	21
51	The Total Synthesis of Gambierol. <i>Journal of the American Chemical Society</i> , 2005, 127, 848-849.	13.7	100
52	The Diastereoselective Synthesis of Quaternary Substituted Thioindolines from Sulfur Ylide Intermediates. <i>Journal of Organic Chemistry</i> , 2005, 70, 746-748.	3.2	34
53	Regioselective Ring-Opening/Cross-Metathesis Reactions of Norbornene Derivatives with Electron-Rich Olefins. <i>Organic Letters</i> , 2005, 7, 131-133.	4.6	68
54	Highly Regioselective Ring-Opening/Cross-Metathesis Reactions of 2-Sulfonylnorbornene Derivatives. <i>Organic Letters</i> , 2004, 6, 1625-1627.	4.6	33

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55	Diastereoselective synthesis of quaternary substituted thioindolines from sulfur ylide intermediates. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 911-915.	1.8	25
56	Tremorgenic Indole Alkaloids. The Total Synthesis of (±)-Penitrem D. <i>Journal of the American Chemical Society</i> , 2003, 125, 8228-8237.	13.7	74
57	Sulfur Ylide-Initiated Thio-Claisen Rearrangements. The Synthesis of Highly Substituted Indolines. <i>Journal of Organic Chemistry</i> , 2003, 68, 993-996.	3.2	49
58	Synthesis of an F ¹⁹ H Gambierol Subunit Using a C-Glycoside-Centered Strategy. <i>Organic Letters</i> , 2003, 5, 913-916.	4.6	55
59	C-Glycosides to fused polycyclic ethers. <i>Tetrahedron</i> , 2002, 58, 1997-2009.	1.9	96
60	An anionic condensation and fragmentation approach to substituted 3-pyrrolines. <i>Tetrahedron Letters</i> , 2002, 43, 8913-8915.	1.4	7
61	The Use of Sulfur Ylides in the Synthesis of Substituted Indoles. <i>Organic Letters</i> , 2001, 3, 2407-2409.	4.6	22
62	C-Glycosides to Fused Polycyclic Ethers. A Formal Synthesis of (±)-Hemibrevetoxin B. <i>Journal of Organic Chemistry</i> , 2001, 66, 1380-1386.	3.2	103
63	C-Glycosides to Fused Polycyclic Ethers. An Efficient Entry into the A ¹⁰ D Ring System of Gambierol. <i>Organic Letters</i> , 2001, 3, 2919-2922.	4.6	67
64	[2+2+1] Cycloadditions of ynol ethers. The synthesis of iron complexes of 3-alkoxycyclopentadienones. <i>Tetrahedron Letters</i> , 2001, 42, 6987-6990.	1.4	25
65	Anionic ring expansion reactions of oxabicyclo[4.2.1]heptenones. An efficient entry into the carbon framework of oxygenated cembranoids. <i>Tetrahedron</i> , 2001, 57, 8029-8037.	1.9	19
66	Enol ether \rightarrow olefin ring closing metathesis using the Grubbs ruthenium imidazole catalyst. <i>Tetrahedron Letters</i> , 2001, 42, 179-181.	1.4	56
67	Polyene cyclizations to indole diterpenes. The first synthesis of (+)-emindole SA using a biomimetic approach. <i>Tetrahedron Letters</i> , 2000, 41, 9419-9423.	1.4	35
68	Cascades to Substituted Indoles. <i>Journal of Organic Chemistry</i> , 2000, 65, 6213-6216.	3.2	82
69	A Highly Efficient Synthesis of the Hemibrevetoxin B Ring System. <i>Organic Letters</i> , 2000, 2, 231-234.	4.6	59
70	Aluminum- and Boron-Mediated C-Glycoside Synthesis from 1,2-Anhydroglycosides. <i>Organic Letters</i> , 2000, 2, 2707-2709.	4.6	89
71	The Synthesis and Chemoselective Reactivity of 3-Aminocyclopentadienones. <i>Journal of Organic Chemistry</i> , 2000, 65, 7272-7276.	3.2	73
72	An isonitrile-alkyne cascade to di-substituted indoles. <i>Tetrahedron Letters</i> , 1999, 40, 6325-6327.	1.4	66

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73	A Novel Anionic Condensation, Fragmentation, and Elimination Reaction of Bicyclo[2.2.1]heptenone Ring Systems. <i>Organic Letters</i> , 1999, 1, 27-30.	4.6	27
74	Anionic Two-Carbon Ring Expansions of Oxabicyclo[2.2.1]heptenes and Oxabicyclo[4.2.1]nonenes. <i>Organic Letters</i> , 1999, 1, 1161-1163.	4.6	12
75	Synthesis and Chemoselective Reactivity of 3-Aminocyclopentadienones. <i>Organic Letters</i> , 1999, 1, 2037-2039.	4.6	64
76	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. <i>Organic Letters</i> , 1999, 1, 1263-1266.	4.6	15
77	A highly efficient iterative approach to fused ether ring systems. <i>Tetrahedron Letters</i> , 1998, 39, 9601-9604.	1.4	45
78	An Iterative Approach to Fused Ether Ring Systems. <i>Journal of Organic Chemistry</i> , 1998, 63, 5310-5311.	3.2	98
79	Tremorgenic Indole Alkaloids. 10. An Improved Asymmetric Synthesis of a Tricyclic Common Intermediate. <i>Israel Journal of Chemistry</i> , 1997, 37, 69-80.	2.3	14
80	Synthesis and Chemistry of Quinone Methide Models for the Anthracycline Antitumor Antibiotics. <i>Journal of Organic Chemistry</i> , 1997, 62, 5884-5892.	3.2	71
81	Formation of Carbon-Carbon Bonds via Quinone Methide-Initiated Cyclization Reactions. <i>Journal of Organic Chemistry</i> , 1994, 59, 6322-6337.	3.2	47
82	Reductive cyclization of quinone methides. <i>Journal of Organic Chemistry</i> , 1992, 57, 6883-6890.	3.2	24
83	Synthesis of (2R, 3R)-1,4-dimethoxy-1,1,4,4-tetraphenyl-2,3-butanediol: A new C ₂ -symmetric vicinal diol from dimethyl L-tartrate. <i>Tetrahedron</i> , 1990, 46, 4165-4170.	1.9	35