Armen Zakarian

List of Publications by Year in Descending Order

75 papers	2,391 citations	28 h-index	47 g-index
80 ext. papers	2,718 ext. citations	10.8 avg, IF	5.29 L-index

#	Paper	IF	Citations
75	Scalable Total Synthesis, IP3R Inhibitory Activity of Desmethylxestospongin B, and Effect on Mitochondrial Function and Cancer Cell Survival. *Angewandte Chemie - International Edition*, **2021**, 60, 11278-11282	16.4	1
74	Scalable Total Synthesis, IP3R Inhibitory Activity of Desmethylxestospongin B, and Effect on Mitochondrial Function and Cancer Cell Survival. *Angewandte Chemie*, **2021**, 133, 11378-11382	3.6	0
73	First evidence that emerging pinnatoxin-G, a contaminant of shellfish, reaches the brain and crosses the placental barrier. *Science of the Total Environment*, **2021**, 790, 148125	10.2	1
72	Stereoselective □-Tertiary Alkylation of -(Arylacetyl)oxazolidinones. *Synlett*, **2020**, 31, 683-686	2.2	2
71	Concise Synthesis of (+)-[13C4]-Anatoxin-a by Dynamic Kinetic Resolution of a Cyclic Iminium Ion. *Angewandte Chemie*, **2020**, 132, 11460-11464	3.6	
70	Cancer cells with defective oxidative phosphorylation require endoplasmic reticulum-to-mitochondria Ca transfer for survival. *Science Signaling*, **2020**, 13,	8.8	23
69	Concise Synthesis of (+)-[C]-Anatoxin-a by Dynamic Kinetic Resolution of a Cyclic Iminium Ion. *Angewandte Chemie - International Edition*, **2020**, 59, 11364-11368	16.4	2
68	Enantioselective Alkylation of 2-Alkylpyridines Controlled by Organolithium Aggregation. *Journal of the American Chemical Society*, **2019**, 141, 15024-15028	16.4	10
67	Synthetic Pinnatoxins A and G Reversibly Block Mouse Skeletal Neuromuscular Transmission In Vivo and In Vitro. *Marine Drugs*, **2019**, 17,	6	8
66	Direct Enantioselective and Regioselective Alkylation of □Unsaturated Carboxylic Acids with Chiral Lithium Amides as Traceless Auxiliaries. *Organic Letters*, **2019**, 21, 1930-1934	6.2	5
65	Total Synthesis of Covalent Cysteine Protease Inhibitor N-Desmethyl Thalassospiramide C and Crystallographic Evidence for Its Mode of Action. *Organic Letters*, **2019**, 21, 508-512	6.2	3
64	Short Total Synthesis of [N]-Cylindrospermopsins from NHCl Enables Precise Quantification of Freshwater Cyanobacterial Contamination. *Journal of the American Chemical Society*, **2018**, 140, 6027-6032	16.4	19
63	Stereodivergence in the Ireland-Claisen Rearrangement of □-Alkoxy Esters. *Organic Letters*, **2018**, 20, 4867-4870	6.2	10
62	Total Synthesis of (+)-Guadinomic Acid via Hydroxyl-Directed Guanidylation. *Journal of Organic Chemistry*, **2018**, 83, 9492-9496	4.2	6
61	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. *ACS Central Science*, **2018**, 4, 1727-1741	16.8	26
60	Direkte asymmetrische Alkylierung von Ketonen: noch immer ein unerreichtes Ziel. *Angewandte Chemie*, **2017**, 129, 9406-9418	3.6	20
59	Direct Asymmetric Alkylation of Ketones: Still Unconquered. *Angewandte Chemie - International Edition*, **2017**, 56, 9278-9290	16.4	52

58	Determination of the Absolute Configuration of Chiral Primary Alcohols Using the Competing Enantioselective Conversion Method. *Organic Letters*, **2017**, 19, 2953-2956	6.2	14
57	Antidiabetic Disruptors of the Glucokinase-Glucokinase Regulatory Protein Complex Reorganize a Coulombic Interface. *Biochemistry*, **2017**, 56, 3150-3157	3.2	5
56	Cyclic imine toxins from dinoflagellates: a growing family of potent antagonists of the nicotinic acetylcholine receptors. *Journal of Neurochemistry*, **2017**, 142 Suppl 2, 41-51	6	39
55	Lithium Enolates in the Enantioselective Construction of Tetrasubstituted Carbon Centers with Chiral Lithium Amides as Noncovalent Stereodirecting Auxiliaries. *Journal of the American Chemical Society*, **2017**, 139, 527-533	16.4	32
54	Total Synthesis of Unsymmetrically Oxidized Nuphar Thioalkaloids via Copper-Catalyzed Thiolane Assembly. *Journal of the American Chemical Society*, **2017**, 139, 13272-13275	16.4	24
53	Synthesis of Functionalized Dihydrobenzofurans by Direct Aryl C O Bond Formation under Mild Conditions. *Angewandte Chemie*, **2016**, 128, 11797-11800	3.6	7
52	Synthesis of Functionalized Dihydrobenzofurans by Direct Aryl C-O Bond Formation under Mild Conditions. *Angewandte Chemie - International Edition*, **2016**, 55, 11625-11628	16.4	23
51	Mixed Aggregates of the Dilithiated Koga Tetraamine: NMR Spectroscopic and Computational Studies. *Angewandte Chemie - International Edition*, **2016**, 55, 10093-7	16.4	6
50	Stereoselective Synthesis of Cyclic Guanidines by Directed Diamination of Unactivated Alkenes. *Organic Letters*, **2016**, 18, 5532-5535	6.2	15
49	Mixed Aggregates of the Dilithiated Koga Tetraamine: NMR Spectroscopic and Computational Studies. *Angewandte Chemie*, **2016**, 128, 10247-10251	3.6	3
48	Cutting-Edge and Time-Honored Strategies for Stereoselective Construction of C-N Bonds in Total Synthesis. *Chemical Reviews*, **2016**, 116, 4441-557	68.1	107
47	Spirolides and Cyclic Imines: Toxicological Profile **2016**, 193-217		2
46	Marine Macrocyclic Imines, Pinnatoxins A and G: Structural Determinants and Functional Properties to Distinguish Neuronal 7 from Muscle 1(2) hAChRs. *Structure*, **2015**, 23, 1106-15	5.2	35
45	Toward the Synthesis of Nuphar Sesquiterpene Thioalkaloids: Stereodivergent Rhodium-Catalyzed Synthesis of the Thiolane Subunit. *Journal of Organic Chemistry*, **2015**, 80, 7581-9	4.2	25
44	Total synthesis and structural revision of (+)-muironolide a. *Journal of the American Chemical Society*, **2015**, 137, 5907-10	16.4	27
43	Toward the Synthesis of Muironolide A: Synthesis and Structure of Heteroleptic Lanthanide erpyridine Complexes with 2-Oxo Amides. *European Journal of Organic Chemistry*, **2015**, 2015, 2337-2341	3.2	6
42	Synthesis of 2-Aminoazoles from Thioesters via -Heterosubstituted Ketones by Copper-Mediated Cross-Coupling. *Journal of Organic Chemistry*, **2015**, 80, 9989-99	4.2	19
41	Synthesis and biology of cyclic imine toxins, an emerging class of potent, globally distributed marine toxins. *Natural Product Reports*, **2015**, 32, 411-35	15.1	46

40	10-Step Asymmetric Total Synthesis and Stereochemical Elucidation of (+)-Dragmacidin D. *Angewandte Chemie - International Edition*, **2015**, 54, 9971-5	16.4	20
39	10-Step Asymmetric Total Synthesis and Stereochemical Elucidation of (+)-Dragmacidin D. *Angewandte Chemie*, **2015**, 127, 10109-10113	3.6	8
38	Direct enantioselective conjugate addition of carboxylic acids with chiral lithium amides as traceless auxiliaries. *Journal of the American Chemical Society*, **2015**, 137, 656-9	16.4	33
37	Spirolides and Cyclic Imines: Toxicological Profile **2015**, 1-19		2
36	Asymmetric radical addition of TEMPO to titanium enolates. *Organic Letters*, **2014**, 16, 516-9	6.2	32
35	Enantioselective synthesis of (-)-maoecrystal V by enantiodetermining C-H functionalization. *Journal of the American Chemical Society*, **2014**, 136, 17738-49	16.4	85
34	Stereoselective □-fluorination of N-acyloxazolidinones at room temperature within 1 h. *Journal of Organic Chemistry*, **2014**, 79, 6206-20	4.2	23
33	Total synthesis of maoecrystal V: early-stage C-H functionalization and lactone assembly by radical cyclization. *Journal of the American Chemical Society*, **2013**, 135, 14552-5	16.4	107
32	Pinnatoxin G is responsible for atypical toxicity in mussels (Mytilus galloprovincialis) and clams (Venerupis decussata) from Ingril, a French Mediterranean lagoon. *Toxicon*, **2013**, 75, 16-26	2.8	59
31	Radical Haloalkylation **2013**, 285-291		2
30	Enantioselective synthesis of tatanans A-C and reinvestigation of their glucokinase-activating properties. *Nature Chemistry*, **2013**, 5, 410-6	17.6	39
29	An efficient synthesis of the fully elaborated isoindolinone unit of muironolide A. *Organic Letters*, **2013**, 15, 3314-7	6.2	15
28	Enediolate-dilithium amide mixed aggregates in the enantioselective alkylation of arylacetic acids: structural studies and a stereochemical model. *Journal of the American Chemical Society*, **2013**, 135, 16853-64	16.4	35
27	Stability of cyclic imine toxins: interconversion of pinnatoxin amino ketone and pinnatoxin A in aqueous media. *Journal of Organic Chemistry*, **2012**, 77, 10435-40	4.2	21
26	A simple method for asymmetric trifluoromethylation of N-acyl oxazolidinones via Ru-catalyzed radical addition to zirconium enolates. *Journal of the American Chemical Society*, **2012**, 134, 6976-9	16.4	119
25	Studies toward the synthesis of spirolide C: exploration into the formation of the 23-membered all-carbon macrocyclic framework. *Organic Letters*, **2012**, 14, 804-7	6.2	28
24	Total synthesis of pinnatoxins A and G and revision of the mode of action of pinnatoxin A. *Journal of the American Chemical Society*, **2011**, 133, 10499-511	16.4	100
23	Efficient total synthesis of dysidenin, dysidin, and barbamide. *Chemistry - an Asian Journal*, **2011**, 6, 2260-75	3.5	26

22	Dual Ti-Ru Catalysis in the Direct Radical Haloalkylation of N-Acyl Oxazolidinones. *Angewandte Chemie*, **2011**, 123, 7274-7277	3.6	19
21	Dual Ti-Ru catalysis in the direct radical haloalkylation of N-acyl oxazolidinones. *Angewandte Chemie - International Edition*, **2011**, 50, 7136-9	16.4	61
20	Highly enantioselective direct alkylation of arylacetic acids with chiral lithium amides as traceless auxiliaries. *Journal of the American Chemical Society*, **2011**, 133, 11936-9	16.4	74
19	Valence tautomerism in titanium enolates: catalytic radical haloalkylation and application in the total synthesis of neodysidenin. *Journal of the American Chemical Society*, **2010**, 132, 1482-3	16.4	94
18	Marine Toxins with Spiroimine Rings: Total Synthesis of Pinnatoxin A. *European Journal of Organic Chemistry*, **2010**, 2010, 5743-5765	3.2	28
17	Concise Total Synthesis of Sintokamides A, B, and E by a Unified, Protecting-Group-Free Strategy. *Angewandte Chemie*, **2010**, 122, 9896-9899	3.6	22
16	Concise total synthesis of sintokamides A, B, and E by a unified, protecting-group-free strategy. *Angewandte Chemie - International Edition*, **2010**, 49, 9702-5	16.4	82
15	Consecutive sigmatropic rearrangements in the enantioselective total synthesis of (−)-joubertinamine and (−)-mesembrine. *Tetrahedron*, **2009**, 65, 3261-3269	2.4	34
14	Studies toward the synthesis of spirolides: assembly of the elaborated E-ring fragment. *Organic Letters*, **2009**, 11, 839-42	6.2	28
13	[3,3]-Sigmatropic rearrangements: recent applications in the total synthesis of natural products. *Chemical Society Reviews*, **2009**, 38, 3133-48	58.5	183
12	Total synthesis of (+)-pinnatoxin A. *Journal of the American Chemical Society*, **2008**, 130, 3774-6	16.4	115
11	Total synthesis of (+/-)--trichodermamide B and of a putative biosynthetic precursor to aspergillazine a using an oxaza-cope rearrangement. *Angewandte Chemie - International Edition*, **2008**, 47, 6829-31	16.4	34
10	Total Synthesis of (±)-Trichodermamide B and of a Putative Biosynthetic Precursor to Aspergillazine A Using an Oxaza-Cope Rearrangement. *Angewandte Chemie*, **2008**, 120, 6935-6937	3.6	10
9	Synthesis of (2R,3R)-2,3-Dimethyl-1,4-Butanediol by Oxidative Homocoupling of (4S)-Isopropyl-3-Propionyl-2-Oxazolidinone **2008**, 158-171		1
8	Studies toward the synthesis of pinnatoxins: the B,C,D-dispiroketal fragment. *Organic Letters*, **2007**, 9, 3161-3	6.2	32
7	Acyclic stereocontrol in the Ireland-Claisen rearrangement of alpha-branched esters. *Angewandte Chemie - International Edition*, **2007**, 46, 7466-9	16.4	80
6	Studies toward the synthesis of pinnatoxins: the spiroimine fragment. *Tetrahedron Letters*, **2007**, 48, 6845-6848	2	18
5	Development of the 1,2-oxaza-Cope rearrangement. *Journal of the American Chemical Society*, **2006**, 128, 5356-7	16.4	24

4	Synthesis of the A,G-spiroimine of pinnatoxins by a microwave-assisted tandem Claisen–Mislow–Evans rearrangement. *Tetrahedron Letters*, **2006**, 47, 7519-7523	2	27
3	An approach to the imine ring system of pinnatoxins. *Organic Letters*, **2005**, 7, 1629-31	6.2	45
2	Chemistry of pinnatoxins49-68		
1	A feed-forward Ca2+-dependent mechanism boosting glycolysis and OXPHOS by activating Aralar-malate-aspartate shuttle, upon neuronal stimulation		1