

# Armen Zakarian

## List of Publications by Citations

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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	[3,3]-Sigmatropic rearrangements: recent applications in the total synthesis of natural products. <i>Chemical Society Reviews</i> , <b>2009</b> , 38, 3133-48	58.5	183
74	A simple method for asymmetric trifluoromethylation of N-acyl oxazolidinones via Ru-catalyzed radical addition to zirconium enolates. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 6976-9	16.4	119
73	Total synthesis of (+)-pinnatoxin A. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 3774-6	16.4	115
72	Cutting-Edge and Time-Honored Strategies for Stereoselective Construction of C-N Bonds in Total Synthesis. <i>Chemical Reviews</i> , <b>2016</b> , 116, 4441-557	68.1	107
71	Total synthesis of maoecrystal V: early-stage C-H functionalization and lactone assembly by radical cyclization. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14552-5	16.4	107
70	Total synthesis of pinnatoxins A and G and revision of the mode of action of pinnatoxin A. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10499-511	16.4	100
69	Valence tautomerism in titanium enolates: catalytic radical haloalkylation and application in the total synthesis of neodysidenin. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 1482-3	16.4	94
68	Enantioselective synthesis of (-)-maoecrystal V by enantiodetermining C-H functionalization. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17738-49	16.4	85
67	Concise total synthesis of sintokamides A, B, and E by a unified, protecting-group-free strategy. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 9702-5	16.4	82
66	Acyclic stereocontrol in the Ireland-Claisen rearrangement of alpha-branched esters. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 7466-9	16.4	80
65	Highly enantioselective direct alkylation of arylacetic acids with chiral lithium amides as traceless auxiliaries. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11936-9	16.4	74
64	Dual Ti-Ru catalysis in the direct radical haloalkylation of N-acyl oxazolidinones. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 7136-9	16.4	61
63	Pinnatoxin G is responsible for atypical toxicity in mussels ( <i>Mytilus galloprovincialis</i> ) and clams ( <i>Venerupis decussata</i> ) from Ingril, a French Mediterranean lagoon. <i>Toxicon</i> , <b>2013</b> , 75, 16-26	2.8	59
62	Direct Asymmetric Alkylation of Ketones: Still Unconquered. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 9278-9290	16.4	52
61	Synthesis and biology of cyclic imine toxins, an emerging class of potent, globally distributed marine toxins. <i>Natural Product Reports</i> , <b>2015</b> , 32, 411-35	15.1	46
60	An approach to the imine ring system of pinnatoxins. <i>Organic Letters</i> , <b>2005</b> , 7, 1629-31	6.2	45
59	Cyclic imine toxins from dinoflagellates: a growing family of potent antagonists of the nicotinic acetylcholine receptors. <i>Journal of Neurochemistry</i> , <b>2017</b> , 142 Suppl 2, 41-51	6	39

58	Enantioselective synthesis of tatanans A-C and reinvestigation of their glucokinase-activating properties. <i>Nature Chemistry</i> , <b>2013</b> , 5, 410-6	17.6	39
57	Marine Macrocyclic Imines, Pinnatoxins A and G: Structural Determinants and Functional Properties to Distinguish Neuronal $\alpha 7$ from Muscle $\alpha 1(2)\alpha$ nAChRs. <i>Structure</i> , <b>2015</b> , 23, 1106-15	5.2	35
56	Enediolate-dilithium amide mixed aggregates in the enantioselective alkylation of arylacetic acids: structural studies and a stereochemical model. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16853-64	16.4	35
55	Consecutive sigmatropic rearrangements in the enantioselective total synthesis of (R)-joubertinamine and (R)-mesembrine. <i>Tetrahedron</i> , <b>2009</b> , 65, 3261-3269	2.4	34
54	Total synthesis of (+/-)-trichodermamide B and of a putative biosynthetic precursor to aspergillazine a using an oxaza-cope rearrangement. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 6829-31	16.4	34
53	Direct enantioselective conjugate addition of carboxylic acids with chiral lithium amides as traceless auxiliaries. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 656-9	16.4	33
52	Lithium Enolates in the Enantioselective Construction of Tetrasubstituted Carbon Centers with Chiral Lithium Amides as Noncovalent Stereodirecting Auxiliaries. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 527-533	16.4	32
51	Asymmetric radical addition of TEMPO to titanium enolates. <i>Organic Letters</i> , <b>2014</b> , 16, 516-9	6.2	32
50	Studies toward the synthesis of pinnatoxins: the B,C,D-dispiroketal fragment. <i>Organic Letters</i> , <b>2007</b> , 9, 3161-3	6.2	32
49	Studies toward the synthesis of spirolide C: exploration into the formation of the 23-membered all-carbon macrocyclic framework. <i>Organic Letters</i> , <b>2012</b> , 14, 804-7	6.2	28
48	Studies toward the synthesis of spirolides: assembly of the elaborated E-ring fragment. <i>Organic Letters</i> , <b>2009</b> , 11, 839-42	6.2	28
47	Marine Toxins with Spiroimine Rings: Total Synthesis of Pinnatoxin A. <i>European Journal of Organic Chemistry</i> , <b>2010</b> , 2010, 5743-5765	3.2	28
46	Total synthesis and structural revision of (+)-muironolide a. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5907-10	16.4	27
45	Synthesis of the A,G-spiroimine of pinnatoxins by a microwave-assisted tandem Claisen-Mislow-Evans rearrangement. <i>Tetrahedron Letters</i> , <b>2006</b> , 47, 7519-7523	2	27
44	Efficient total synthesis of dysidenin, dysidin, and barbamide. <i>Chemistry - an Asian Journal</i> , <b>2011</b> , 6, 2260-35	3.5	26
43	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. <i>ACS Central Science</i> , <b>2018</b> , 4, 1727-1741	16.8	26
42	Toward the Synthesis of Nuphar Sesquiterpene Thioalkaloids: Stereodivergent Rhodium-Catalyzed Synthesis of the Thiolane Subunit. <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 7581-9	4.2	25
41	Total Synthesis of Unsymmetrically Oxidized Nuphar Thioalkaloids via Copper-Catalyzed Thiolane Assembly. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13272-13275	16.4	24

40	Development of the 1,2-oxaza-Cope rearrangement. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 5356-7	16.4	24
39	Synthesis of Functionalized Dihydrobenzofurans by Direct Aryl C-O Bond Formation under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 11625-11628	16.4	23
38	Stereoselective $\pi$ -fluorination of N-acyloxazolidinones at room temperature within 1 h. <i>Journal of Organic Chemistry</i> , <b>2014</b> , 79, 6206-20	4.2	23
37	Cancer cells with defective oxidative phosphorylation require endoplasmic reticulum-to-mitochondria Ca transfer for survival. <i>Science Signaling</i> , <b>2020</b> , 13,	8.8	23
36	Concise Total Synthesis of Sintokamides A, B, and E by a Unified, Protecting-Group-Free Strategy. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 9896-9899	3.6	22
35	Stability of cyclic imine toxins: interconversion of pinnatoxin amino ketone and pinnatoxin A in aqueous media. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 10435-40	4.2	21
34	Direkte asymmetrische Alkylierung von Ketonen: noch immer ein unerreichtes Ziel. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 9406-9418	3.6	20
33	10-Step Asymmetric Total Synthesis and Stereochemical Elucidation of (+)-Dragmacidin D. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9971-5	16.4	20
32	Synthesis of 2-Aminoazoles from Thioesters via $\pi$ -Heterosubstituted Ketones by Copper-Mediated Cross-Coupling. <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 9989-99	4.2	19
31	Short Total Synthesis of [N]-Cylindrospermopsins from NHCl Enables Precise Quantification of Freshwater Cyanobacterial Contamination. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 6027-6032	16.4	19
30	Dual TiBu Catalysis in the Direct Radical Haloalkylation of N-Acyl Oxazolidinones. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 7274-7277	3.6	19
29	Studies toward the synthesis of pinnatoxins: the spiroimine fragment. <i>Tetrahedron Letters</i> , <b>2007</b> , 48, 6845-6848	2	18
28	Stereoselective Synthesis of Cyclic Guanidines by Directed Diamination of Unactivated Alkenes. <i>Organic Letters</i> , <b>2016</b> , 18, 5532-5535	6.2	15
27	An efficient synthesis of the fully elaborated isoindolinone unit of muironolide A. <i>Organic Letters</i> , <b>2013</b> , 15, 3314-7	6.2	15
26	Determination of the Absolute Configuration of $\pi$ Chiral Primary Alcohols Using the Competing Enantioselective Conversion Method. <i>Organic Letters</i> , <b>2017</b> , 19, 2953-2956	6.2	14
25	Enantioselective Alkylation of 2-Alkylpyridines Controlled by Organolithium Aggregation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15024-15028	16.4	10
24	Stereodivergence in the Ireland-Claisen Rearrangement of $\pi$ -Alkoxy Esters. <i>Organic Letters</i> , <b>2018</b> , 20, 4867-4870	6.2	10
23	Total Synthesis of ( $\pi$ )-Trichoderamide B and of a Putative Biosynthetic Precursor to Aspergillazine A Using an Oxaza-Cope Rearrangement. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 6935-6937	3.6	10

22	Synthetic Pinnatoxins A and G Reversibly Block Mouse Skeletal Neuromuscular Transmission In Vivo and In Vitro. <i>Marine Drugs</i> , <b>2019</b> , 17,	6	8
21	10-Step Asymmetric Total Synthesis and Stereochemical Elucidation of (+)-Dragmacidin D. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 10109-10113	3.6	8
20	Synthesis of Functionalized Dihydrobenzofurans by Direct Aryl C-D Bond Formation under Mild Conditions. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 11797-11800	3.6	7
19	Toward the Synthesis of Muironolide A: Synthesis and Structure of Heteroleptic Lanthanide-Terpyridine Complexes with 2-Oxo Amides. <i>European Journal of Organic Chemistry</i> , <b>2015</b> , 2015, 2337-2341	3.2	6
18	Mixed Aggregates of the Dilithiated Koga Tetraamine: NMR Spectroscopic and Computational Studies. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10093-7	16.4	6
17	Total Synthesis of (+)-Guadinomic Acid via Hydroxyl-Directed Guanidylation. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 9492-9496	4.2	6
16	Antidiabetic Disruptors of the Glucokinase-Glucokinase Regulatory Protein Complex Reorganize a Coulombic Interface. <i>Biochemistry</i> , <b>2017</b> , 56, 3150-3157	3.2	5
15	Direct Enantioselective and Regioselective Alkylation of $\alpha$ -Unsaturated Carboxylic Acids with Chiral Lithium Amides as Traceless Auxiliaries. <i>Organic Letters</i> , <b>2019</b> , 21, 1930-1934	6.2	5
14	Mixed Aggregates of the Dilithiated Koga Tetraamine: NMR Spectroscopic and Computational Studies. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10247-10251	3.6	3
13	Total Synthesis of Covalent Cysteine Protease Inhibitor N-Desmethyl Thalassospiramide C and Crystallographic Evidence for Its Mode of Action. <i>Organic Letters</i> , <b>2019</b> , 21, 508-512	6.2	3
12	Stereoselective $\beta$ -Tertiary Alkylation of $\alpha$ -(Arylacetyl)oxazolidinones. <i>Synlett</i> , <b>2020</b> , 31, 683-686	2.2	2
11	Radical Haloalkylation <b>2013</b> , 285-291		2
10	Spirolides and Cyclic Imines: Toxicological Profile <b>2015</b> , 1-19		2
9	Spirolides and Cyclic Imines: Toxicological Profile <b>2016</b> , 193-217		2
8	Concise Synthesis of (+)-[C]-Anatoxin-a by Dynamic Kinetic Resolution of a Cyclic Iminium Ion. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 11364-11368	16.4	2
7	Synthesis of (2R,3R)-2,3-Dimethyl-1,4-Butanediol by Oxidative Homocoupling of (4S)-Isopropyl-3-Propionyl-2-Oxazolidinone <b>2008</b> , 158-171		1
6	Scalable Total Synthesis, IP3R Inhibitory Activity of Desmethylxestospongins B, and Effect on Mitochondrial Function and Cancer Cell Survival. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 11278-11282	16.4	1
5	A feed-forward Ca <sup>2+</sup> -dependent mechanism boosting glycolysis and OXPHOS by activating Aralar-malate-aspartate shuttle, upon neuronal stimulation		1

4	First evidence that emerging pinnatoxin-G, a contaminant of shellfish, reaches the brain and crosses the placental barrier. <i>Science of the Total Environment</i> , <b>2021</b> , 790, 148125	10.2	1
3	Scalable Total Synthesis, IP3R Inhibitory Activity of Desmethylxestospongine B, and Effect on Mitochondrial Function and Cancer Cell Survival. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 11378-11382	3.6	0
2	Concise Synthesis of (+)-[13C4]-Anatoxin-a by Dynamic Kinetic Resolution of a Cyclic Iminium Ion. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 11460-11464	3.6	
1	Chemistry of pinnatoxins49-68		