

# Dariush Ajami

## List of Publications by Year in descending order

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64  
papers

2,666  
citations

159525

30  
h-index

182361

51  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2647  
citing authors

#	ARTICLE	IF	CITATIONS
1	More Chemistry in Small Spaces. <i>Accounts of Chemical Research</i> , 2013, 46, 990-999.	7.6	195
2	Compressed alkanes in reversible encapsulation complexes. <i>Nature Chemistry</i> , 2009, 1, 87-90.	6.6	150
3	Synthesis and Properties of the First Möbius Annulenes. <i>Chemistry - A European Journal</i> , 2006, 12, 5434-5445.	1.7	120
4	Soft templates in encapsulation complexes. <i>Chemical Society Reviews</i> , 2015, 44, 490-499.	18.7	110
5	Expanded Capsules with Reversibly Added Spacers. <i>Journal of the American Chemical Society</i> , 2006, 128, 5314-5315.	6.6	102
6	Synapse-specific IL-1 receptor subunit reconfiguration augments vulnerability to IL-1 $\beta$ in the aged hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5078-87.	3.3	95
7	A convenient oxidative deprotection of tetrahydropyranyl ethers with iron(III) nitrate and clay under microwave irradiation in solvent free conditions. <i>Tetrahedron Letters</i> , 1999, 40, 561-562.	0.7	89
8	Hydrogen-Bonded Capsules in Water. <i>Journal of the American Chemical Society</i> , 2013, 135, 18064-18066.	6.6	87
9	Amplified Halogen Bonding in a Small Space. <i>Journal of the American Chemical Society</i> , 2013, 135, 13672-13675.	6.6	85
10	Photochemical Control of Reversible Encapsulation. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3192-3195.	7.2	83
11	Coiled Molecules in Spring Loaded Devices. <i>Journal of the American Chemical Society</i> , 2006, 128, 15038-15039.	6.6	77
12	Reaction of Carboxylic Acids and Isonitriles in Small Spaces. <i>Journal of the American Chemical Society</i> , 2008, 130, 7810-7811.	6.6	74
13	'Too Small, Too Big, and Just Right' Optical Sensing of Molecular Conformations in Self-Assembled Capsules. <i>Journal of the American Chemical Society</i> , 2009, 131, 13190-13191.	6.6	72
14	Alkyl Groups Fold to Fit within a Water-Soluble Cavitand. <i>Journal of the American Chemical Society</i> , 2014, 136, 5264-5266.	6.6	70
15	Disproportionation and self-sorting in molecular encapsulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10430-10434.	3.3	69
16	Longer Guests Drive the Reversible Assembly of Hyperextended Capsules. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 9283-9286.	7.2	65
17	Gas Behavior in Self-Assembled Capsules. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6059-6061.	7.2	64
18	Wet Alumina Supported Chromium(VI) Oxide: A Mild, Efficient and Inexpensive Reagent for Oxidative Deprotection of Trimethylsilyl and Tetrahydropyranyl Ethers in a Solventless System. <i>Synthesis</i> , 1999, 393-394.	1.2	63

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19	Bent Alkanes in a New Thiourea-Containing Capsule. <i>Journal of the American Chemical Society</i> , 2011, 133, 10682-10684.	6.6	60
20	Adaptations of guest and host in expanded self-assembled capsules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16000-16003.	3.3	59
21	Chemical approaches for detection and destruction of nerve agents. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 3936.	1.5	57
22	Alkane Lengths Determine Encapsulation Rates and Equilibria. <i>Journal of the American Chemical Society</i> , 2012, 134, 8070-8073.	6.6	54
23	Autocatalysis and organocatalysis with synthetic structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 541-544.	3.3	50
24	Multicomponent, Hydrogen-Bonded Cylindrical Capsules. <i>Journal of Organic Chemistry</i> , 2009, 74, 6584-6591.	1.7	49
25	Encapsulated Carboxylic Acid Dimers with Compressed Hydrogen Bonds. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 528-531.	7.2	47
26	Boronic Acid Hydrogen Bonding in Encapsulation Complexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 9689-9691.	6.6	42
27	Theoretical Study of Hydrogen Bonding in Homodimers and Heterodimers of Amide, Boronic Acid, and Carboxylic Acid, Free and in Encapsulation Complexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 16977-16985.	6.6	42
28	Conformations and Fluorescence of Encapsulated Stilbene. <i>Journal of the American Chemical Society</i> , 2012, 134, 4346-4354.	6.6	40
29	Encapsulation of the uranyl dication. <i>Chemical Science</i> , 2010, 1, 43.	3.7	37
30	Experimental and computational probes of the space in a self-assembled capsule. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8934-8936.	3.3	35
31	Folded alkyl chains in water-soluble capsules and cavitands. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 6561-6563.	1.5	26
32	Complexes within complexes: hydrogen bonding in capsules. <i>Chemical Science</i> , 2012, 3, 3022.	3.7	25
33	Unusual orientation and reactivity of alkyl halides in water-soluble cavitands. <i>Chemical Science</i> , 2014, 5, 4382-4387.	3.7	25
34	Control of stilbene conformation and fluorescence in self-assembled capsules. <i>Beilstein Journal of Organic Chemistry</i> , 2009, 5, 79.	1.3	23
35	Recognition and sequestration of $\omega$ -fatty acids by a cavitand receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11181-11186.	3.3	23
36	$\alpha$ -ZEOFEN, AN EFFICIENT REAGENT FOR OXIDATIVE DEPROTECTION OF TRIMETHYLSILYL ETHERS UNDER MICROWAVE IRRADIATION IN SOLVENTLESS SYSTEM. <i>Synthetic Communications</i> , 2001, 31, 2097-2100.	1.1	22

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37	Therapeutic Inhibition of Pro-Inflammatory Signaling and Toxicity to Staphylococcal Enterotoxin B by a Synthetic Dimeric BB-Loop Mimetic of MyD88. PLoS ONE, 2012, 7, e40773.	1.1	19
38	Theoretical study of free and encapsulated carboxylic acid and amide dimers. International Journal of Quantum Chemistry, 2013, 113, 734-739.	1.0	19
39	ZEOFEN, AN ECO-FRIENDLY CATALYST FOR DEOXIMATION UNDER MICROWAVE IRRADIATION IN SOLVENTLESS SYSTEM. Synthetic Communications, 2002, 32, 3325-3330.	1.1	18
40	Encapsulation of Ion Pairs in Extended, Self-Assembled Structures. Journal of the American Chemical Society, 2012, 134, 11971-11973.	6.6	17
41	Covalent capsules: reversible binding in a chiral space. Chemical Science, 2013, 4, 1212.	3.7	17
42	Experimental and Computational Probes of a Self-Assembled Capsule. Organic Letters, 2006, 8, 2925-2928.	2.4	13
43	Reactivity of N-nitrosoamides in confined spaces. Tetrahedron Letters, 2011, 52, 2100-2103.	0.7	13
44	Protein Recognition by a Self-Assembled Deep Cavitand Monolayer on a Gold Substrate. Langmuir, 2012, 28, 1391-1398.	1.6	11
45	Reversible Encapsulation of Terminal Alkenes and Alkynes. Heterocycles, 2008, 76, 169.	0.4	10
46	Encapsulated hydrogen-bonded dimers of amide and carboxylic acid. Chemical Physics Letters, 2012, 548, 55-59.	1.2	10
47	Robust hydrogen-bonded capsules with stability in competitive media. Journal of Physical Organic Chemistry, 2015, 28, 187-190.	0.9	10
48	Structure-Based Design and Synthesis of a Small Molecule that Exhibits Anti-inflammatory Activity by Inhibition of MyD88-mediated Signaling to Bacterial Toxin Exposure. Chemical Biology and Drug Design, 2015, 86, 200-209.	1.5	10
49	Control of nanospaces with molecular devices. Supramolecular Chemistry, 2011, 23, 37-41.	1.5	9
50	Cavitands with Mobile Walls. Organic Letters, 2009, 11, 3163-3165.	2.4	8
51	Social Isomers of Picolines in a Small Space. Chemistry - A European Journal, 2013, 19, 17092-17096.	1.7	8
52	Small Molecule Mimetics of Î±-Helical Domain of IRAK2 Attenuate the Proinflammatory Effects of IL-33 in Asthma-like Mouse Models. Journal of Immunology, 2018, 200, 4036-4043.	0.4	8
53	An Ton adsorbiertes Bis(trimethylsilyl)chromat: Oxidative EntschÄ¼tzung von Tetrahydropyranylethern unter LÃ¶sungsmittelfreien Bedingungen und Bestrahlung mit Mikrowellen. Monatshefte FÃ¼r Chemie, 1999, 130, 709.	0.9	8
54	Chrom(VI)oxid auf feuchtem Aluminiumoxid: Ein mildes, effizientes und billiges Reagens zur oxidativen EntschÄ¼tzung von Trimethylsilyl- und Tetrahydropyranylethern. Monatshefte FÃ¼r Chemie, 1999, 130, 337.	0.9	8

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55	Translational motion inside self-assembled encapsulation complexes. <i>Tetrahedron</i> , 2009, 65, 7208-7212.	1.0	7
56	Tertiary Amide Rotation in a Nanoscale Host. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 2722-2728.	1.2	6
57	Molecular Switching in Nanospaces. <i>Journal of the Chinese Chemical Society</i> , 2010, 57, 595-603.	0.8	6
58	Unexpected consequences of methyl substitutions in supramolecular chemistry. <i>Supramolecular Chemistry</i> , 2013, 25, 574-580.	1.5	5
59	Cavitands with inwardly and outwardly directed functional groups. <i>Tetrahedron Letters</i> , 2015, 56, 4824-4828.	0.7	5
60	OXIDATIVE DEPROTECTION OF TRIMETHYLSILYL ETHERS TO CARBONYL COMPOUNDS WITH PdCl <sub>2</sub> (PhCN) <sub>2</sub> -CrO <sub>3</sub> AND CLAY-BIS(TRIMETHYLSILYL) CHROMATE IN SOLVENTLESS SYSTEM. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2000, 158, 151-156.	0.8	4
61	Rational design of peptide derivatives for inhibition of MyD88-mediated toll-like receptor signaling in human peripheral blood mononuclear cells and epithelial cells exposed to <i>Francisella tularensis</i> . <i>Chemical Biology and Drug Design</i> , 2017, 90, 1190-1205.	1.5	4
62	Novel loop-like aromatic compounds: a further step on the road to nanobelts and nanotubes. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 30.	1.3	3
63	Solid Guests in Reversible Encapsulation Hosts. <i>Heterocycles</i> , 2010, 80, 109.	0.4	3
64	Cover Picture: Self-Assembled Capsules of Unprecedented Shapes ( <i>Angew. Chem. Int. Ed.</i> 50/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11805-11805.	7.2	2