

M Reza Ghadiri

List of Publications by Citations

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103
papers

15,893
citations

62
h-index

107
g-index

107
ext. papers

16,747
ext. citations

14.3
avg, IF

6.3
L-index

#	Paper	IF	Citations
103	Self-assembling organic nanotubes based on a cyclic peptide architecture. <i>Nature</i> , 1993 , 366, 324-7	50.4	1469
102	A porous silicon-based optical interferometric biosensor. <i>Science</i> , 1997 , 278, 840-3	33.3	1073
101	Self-Assembling Organic Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 988-1011	16.4	944
100	Antibacterial agents based on the cyclic D,L-alpha-peptide architecture. <i>Nature</i> , 2001 , 412, 452-5	50.4	827
99	Artificial transmembrane ion channels from self-assembling peptide nanotubes. <i>Nature</i> , 1994 , 369, 301-4	50.4	810
98	Self-Assembling Peptide Nanotubes. <i>Journal of the American Chemical Society</i> , 1996 , 118, 43-50	16.4	536
97	A self-replicating peptide. <i>Nature</i> , 1996 , 382, 525-8	50.4	507
96	Heterocyclic peptide backbone modifications in an alpha-helical coiled coil. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15366-7	16.4	406
95	Macroporous p-Type Silicon FabryPerot Layers. Fabrication, Characterization, and Applications in Biosensing. <i>Journal of the American Chemical Society</i> , 1998 , 120, 12108-12116	16.4	345
94	A heterocyclic peptide nanotube. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9372-6	16.4	287
93	Self-Assembling Cyclic β -Peptide Nanotubes as Artificial Transmembrane Ion Channels. <i>Journal of the American Chemical Society</i> , 1998 , 120, 651-656	16.4	270
92	A chiroselective peptide replicator. <i>Nature</i> , 2001 , 409, 797-801	50.4	250
91	Secondary structure nucleation in peptides. Transition metal ion stabilized .alpha.-helices. <i>Journal of the American Chemical Society</i> , 1990 , 112, 1630-1632	16.4	245
90	DNA-based photonic logic gates: AND, NAND, and INHIBIT. <i>Journal of the American Chemical Society</i> , 2003 , 125, 346-7	16.4	239
89	Ion channel models based on self-assembling cyclic peptide nanotubes. <i>Accounts of Chemical Research</i> , 2013 , 46, 2955-65	24.3	235
88	Channel-Mediated Transport of Glucose across Lipid Bilayers. <i>Journal of the American Chemical Society</i> , 1994 , 116, 10785-10786	16.4	232
87	Peptide Nanotubes and Beyond. <i>Chemistry - A European Journal</i> , 1998 , 4, 1367-1372	4.8	225

86	Modular multi-level circuits from immobilized DNA-based logic gates. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14875-9	16.4	225
85	The Structural and Thermodynamic Basis for the Formation of Self-Assembled Peptide Nanotubes. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 93-95		216
84	Organische Nanoröhren durch Selbstorganisation. <i>Angewandte Chemie</i> , 2001 , 113, 1016-1041	3.6	206
83	Nanoscale Tubular Ensembles with Specified Internal Diameters. Design of a Self-Assembled Nanotube with a 13-Å Pore. <i>Journal of the American Chemical Society</i> , 1994 , 116, 6011-6012	16.4	205
82	Emergence of symbiosis in peptide self-replication through a hypercyclic network. <i>Nature</i> , 1997 , 390, 591-4	50.4	199
81	Boolean logic functions of a synthetic peptide network. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11140-1	16.4	193
80	A single-molecule nanopore device detects DNA polymerase activity with single-nucleotide resolution. <i>Journal of the American Chemical Society</i> , 2008 , 130, 818-20	16.4	190
79	Oriented Self-Assembly of Cyclic Peptide Nanotubes in Lipid Membranes. <i>Journal of the American Chemical Society</i> , 1998 , 120, 4417-4424	16.4	190
78	DNA detection and signal amplification via an engineered allosteric enzyme. <i>Journal of the American Chemical Society</i> , 2003 , 125, 344-5	16.4	178
77	Design of self-assembling peptide nanotubes with delocalized electronic states. <i>Small</i> , 2006 , 2, 99-102	11	176
76	Supramolecular Design by Covalent Capture. Design of a Peptide Cylinder via Hydrogen-Bond-Promoted Intermolecular Olefin Metathesis. <i>Journal of the American Chemical Society</i> , 1995 , 117, 12364-12365	16.4	176
75	Design of a directed molecular network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10872-7	11.5	170
74	Self-assembling sequence-adaptive peptide nucleic acids. <i>Science</i> , 2009 , 325, 73-7	33.3	165
73	Cylindrical β -Sheet Peptide Assemblies. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8949-8962	16.4	163
72	Recognizing a single base in an individual DNA strand: a step toward DNA sequencing in nanopores. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1401-4	16.4	157
71	Photoswitchable Hydrogen-Bonding in Self-Organized Cylindrical Peptide Systems. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 1598-1601	16.4	152
70	Structure and Dynamics of Self-Assembling Peptide Nanotubes and the Channel-Mediated Water Organization and Self-Diffusion. A Molecular Dynamics Study. <i>Journal of the American Chemical Society</i> , 1995 , 117, 9151-9158	16.4	152
69	Modulating ion channel properties of transmembrane peptide nanotubes through heteromeric supramolecular assemblies. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10004-5	16.4	143

68	Diffusion-Limited Size-Selective Ion Sensing Based on SAM-Supported Peptide Nanotubes. <i>Journal of the American Chemical Society</i> , 1997 , 119, 11306-11312	16.4	138
67	Efficient route to C2 symmetric heterocyclic backbone modified cyclic peptides. <i>Organic Letters</i> , 2005 , 7, 4503-6	6.2	137
66	Systemic antibacterial activity of novel synthetic cyclic peptides. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 3302-10	5.9	131
65	Probing the bioactive conformation of an archetypal natural product HDAC inhibitor with conformationally homogeneous triazole-modified cyclic tetrapeptides. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4718-24	16.4	127
64	A synthetic peptide ligase. <i>Nature</i> , 1997 , 389, 706-9	50.4	127
63	Cyclic Peptides as Molecular Adapters for a Pore-Forming Protein. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11757-11766	16.4	121
62	Peptide architecture. Design of stable α -helical metallopeptides via a novel exchange-inert ruthenium(III) complex. <i>Journal of the American Chemical Society</i> , 1990 , 112, 9633-9635	16.4	119
61	A virocidal amphipathic α -helical peptide that inhibits hepatitis C virus infection in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 3088-93	11.5	117
60	Modulating charge transfer through cyclic D,L- α -peptide self-assembly. <i>Chemistry - A European Journal</i> , 2005 , 11, 1137-44	4.8	110
59	Antiviral cyclic D,L- α -peptides: targeting a general biochemical pathway in virus infections. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 5145-53	3.4	100
58	Autocatalytic networks: the transition from molecular self-replication to molecular ecosystems. <i>Current Opinion in Chemical Biology</i> , 1997 , 1, 491-6	9.7	99
57	β Sheet Peptide Architecture: Measuring the Relative Stability of Parallel vs. Antiparallel β Sheets. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 95-98		98
56	A Synthetic Pore-Mediated Transmembrane Transport of Glutamic Acid. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2503-2506	16.4	95
55	Peptide Self-Replication Via Template-Directed Ligation. <i>Chemistry - A European Journal</i> , 1997 , 3, 1017-1024	16.4	94
54	De Novo Design of a Novel Heterodinuclear Three-Helix Bundle Metalloprotein. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 1594-1597		86
53	Conformationally homogeneous heterocyclic pseudotetrapeptides as three-dimensional scaffolds for rational drug design: receptor-selective somatostatin analogues. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4725-9	16.4	85
52	DNA hybridization-enhanced porous silicon corrosion: mechanistic investigations and prospect for optical interferometric biosensing. <i>Tetrahedron</i> , 2004 , 60, 11259-11267	2.4	84
51	Dynamic Error Correction in Autocatalytic Peptide Networks. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 126-128	16.4	75

50	Peptide Macrocyclization Inspired by Non-Ribosomal Imine Natural Products. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5233-5241	16.4	71
49	Design, synthesis, biological evaluation, and structural characterization of potent histone deacetylase inhibitors based on cyclic alpha/beta-tetrapeptide architectures. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3033-41	16.4	69
48	Discovery of potent and selective histone deacetylase inhibitors via focused combinatorial libraries of cyclic alpha3beta-tetrapeptides. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 7836-46	8.3	69
47	Sequence-addressable DNA logic. <i>Small</i> , 2008 , 4, 427-31	11	69
46	Single DNA rotaxanes of a transmembrane pore protein. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3063-7	16.4	69
45	Self-Assembling Organic Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 988-1011	16.4	67
44	Design of molecular logic devices based on a programmable DNA-regulated semisynthetic enzyme. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3955-8	16.4	64
43	Reversible Photoisomerization of Self-Organized Cylindrical Peptide Assemblies at Air/Water and Solid Interfaces. <i>Langmuir</i> , 1999 , 15, 3956-3964	4	63
42	Covalent Capture and Stabilization of Cylindrical Sheet Peptide Assemblies. <i>Chemistry - A European Journal</i> , 1999 , 5, 782-792	4.8	61
41	Strukturelle und thermodynamische Voraussetzungen für die Bildung selbstorganisierter röhrenförmiger Peptid-Nanostrukturen. <i>Angewandte Chemie</i> , 1995 , 107, 76-78	3.6	57
40	Universal translators for nucleic acid diagnosis. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9368-71	16.4	55
39	A combinatorial approach to the discovery of biocidal six-residue cyclic D,L-alpha-peptides against the bacteria methicillin-resistant Staphylococcus aureus (MRSA) and E. coli and the biofouling algae Ulva linza and Navicula perminuta. <i>Chemistry - A European Journal</i> , 2007 , 13, 4008-13	4.8	55
38	Automated mass spectrometric sequence determination of cyclic peptide library members. <i>ACS Combinatorial Science</i> , 2003 , 5, 33-40		54
37	Antibacterial cyclic D,L-alpha-glycopeptides. <i>Chemical Communications</i> , 2009 , 3693-5	5.8	53
36	Self-Assembling Cyclic Peptide Cylinders as Nuclei for Crystal Engineering. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2163-2166	16.4	50
35	Photoschaltbare Wasserstoffbrücken-Verknüpfung in selbstorganisierten zylindrischen Peptidanordnungen. <i>Angewandte Chemie</i> , 1999 , 111, 1703-1706	3.6	47
34	A de novo designed peptide ligase: a mechanistic investigation. <i>Journal of the American Chemical Society</i> , 2001 , 123, 1797-803	16.4	45
33	Crystalline Cyclic Peptide Nanotubes at Interfaces. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1186-1191	16.4	45

32	Real-time monitoring of DNA polymerase function and stepwise single-nucleotide DNA strand translocation through a protein nanopore. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 10106-9	16.4	42
31	Self-assembling peptide nanotubes with antiviral activity against hepatitis C virus. <i>Chemistry and Biology</i> , 2011 , 18, 1453-62		40
30	Structure-based engineering of internal cavities in coiled-coil peptides. <i>Biochemistry</i> , 2005 , 44, 9723-32	3.2	38
29	Discovery of HDAC Inhibitors That Lack an Active Site Zn(2+)-Binding Functional Group. <i>ACS Medicinal Chemistry Letters</i> , 2012 , 3, 505-8	4.3	37
28	Recognizing a Single Base in an Individual DNA Strand: A Step Toward DNA Sequencing in Nanopores. <i>Angewandte Chemie</i> , 2005 , 117, 1425-1428	3.6	35
27	Catalyzed oxidative corrosion of porous silicon used as an optical transducer for ligand-receptor interactions. <i>ChemBioChem</i> , 2008 , 9, 1776-86	3.8	33
26	Stereoselection in designed three-helix bundle metalloproteins. <i>Chirality</i> , 1998 , 10, 35-40	2.1	30
25	Natural and Synthetic Macrocyclic Inhibitors of the Histone Deacetylase Enzymes. <i>ChemBioChem</i> , 2017 , 18, 5-49	3.8	28
24	Macrocyclic peptoid-Peptide hybrids as inhibitors of class I histone deacetylases. <i>ACS Medicinal Chemistry Letters</i> , 2012 , 3, 749-53	4.3	28
23	Transition metal mediated surface modification of porous silicon. <i>Tetrahedron</i> , 2001 , 57, 5131-5136	2.4	27
22	Biomimetic catalysis of intermodular aminoacyl transfer. <i>Journal of the American Chemical Society</i> , 2007 , 129, 748-9	16.4	26
21	Directed remodeling of the mouse gut microbiome inhibits the development of atherosclerosis. <i>Nature Biotechnology</i> , 2020 , 38, 1288-1297	44.5	24
20	Potential Agents for Treating Cystic Fibrosis: Cyclic Tetrapeptides that Restore Trafficking and Activity of F508-CFTR. <i>ACS Medicinal Chemistry Letters</i> , 2011 , 2, 703-707	4.3	23
19	Biomimetic catalysis of diketopiperazine and dipeptide syntheses. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1758-61	16.4	23
18	Functional and mechanistic analyses of biomimetic aminoacyl transfer reactions in de novo designed coiled coil peptides via rational active site engineering. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2959-66	16.4	23
17	Zur Architektur von Peptiden: Bestimmung der relativen Stabilität von parallelen und antiparallelen Faltblättern. <i>Angewandte Chemie</i> , 1995 , 107, 79-81	3.6	22
16	Cyclic tetrapeptide HDAC inhibitors as potential therapeutics for spinal muscular atrophy: Screening with iPSC-derived neuronal cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 3289-3293	2.9	21
15	Self-Assembling Cyclic d,l-Peptides as Modulators of Plasma HDL Function. A Supramolecular Approach toward Antiatherosclerotic Agents. <i>ACS Central Science</i> , 2017 , 3, 639-646	16.8	19

14	Self-assembly of peptide based nanotubes. <i>Materials Science and Engineering C</i> , 1997 , 4, 207-212	8.3	19
13	A Synthetic Pore-Mediated Transmembrane Transport of Glutamic Acid. <i>Angewandte Chemie</i> , 2001 , 113, 2571-2574	3.6	19
12	Single DNA Rotaxanes of a Transmembrane Pore Protein. <i>Angewandte Chemie</i> , 2004 , 116, 3125-3129	3.6	13
11	Design of a DNA-Programmed Plasminogen Activator. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15516-15524	16.4	13
10	Peptide Bond Formation in Water Mediated by Carbon Disulfide. <i>Astrobiology</i> , 2015 , 15, 709-16	3.7	11
9	Self-Assembling Cyclic Peptide Cylinders as Nuclei for Crystal Engineering. <i>Angewandte Chemie</i> , 2001 , 113, 2221-2224	3.6	8
8	Potentially Prebiotic Synthesis of α Amino Thioacids in Water. <i>Synlett</i> , 2016 , 28, 68-72	2.2	6
7	Real-Time Monitoring of DNA Polymerase Function and Stepwise Single-Nucleotide DNA Strand Translocation through a Protein Nanopore. <i>Angewandte Chemie</i> , 2010 , 122, 10304-10307	3.6	4
6	Templated Self-Assembly of Dynamic Peptide Nucleic Acids. <i>Biochemistry</i> , 2018 , 57, 160-172	3.2	3
5	Self Assembling Organic Nanotubes 1996 , 181-188		1
4	Peptide Nanotubes and Beyond 1998 , 4, 1367		1
3	A kinetically controlled, isothermal method for the detection of single nucleotide mismatches. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 2754-2758	2.9	
2	Cover Picture: Single DNA Rotaxanes of a Transmembrane Pore Protein (Angew. Chem. Int. Ed. 23/2004). <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2977-2977	16.4	
1	Titelbild: Single DNA Rotaxanes of a Transmembrane Pore Protein (Angew. Chem. 23/2004). <i>Angewandte Chemie</i> , 2004 , 116, 3037-3037	3.6	