M Reza Ghadiri

List of Publications by Year
in descending order

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97 papers	17,945 citations	16411 64 h-index	31759 101 g-index
107 all docs	107 docs citations	107 times ranked	12092 citing authors

#	Article	IF	Citations
1	Self-assembling organic nanotubes based on a cyclic peptide architecture. Nature, 1993, 366, 324-327.	13.7	1,666
2	A Porous Silicon-Based Optical Interferometric Biosensor. Science, 1997, 278, 840-843.	6.0	1,207
3	Self-Assembling Organic Nanotubes. Angewandte Chemie - International Edition, 2001, 40, 988-1011.	7.2	1,053
4	Artificial transmembrane ion channels from self-assembling peptide nanotubes. Nature, 1994, 369, 301-304.	13.7	926
5	Antibacterial agents based on the cyclic d,l-Î±-peptide architecture. Nature, 2001, 412, 452-455.	13.7	910
6	A self-replicating peptide. Nature, 1996, 382, 525-528.	13.7	620
7	Self-Assembling Peptide Nanotubes. Journal of the American Chemical Society, 1996, 118, 43-50.	6.6	593
8	Heterocyclic Peptide Backbone Modifications in an Î±-Helical Coiled Coil. Journal of the American Chemical Society, 2004, 126, 15366-15367.	6.6	439
9	Macroporous p-Type Silicon Fabryâ^'Perot Layers. Fabrication, Characterization, and Applications in Biosensing. Journal of the American Chemical Society, 1998, 120, 12108-12116.	6.6	381
10	A Heterocyclic Peptide Nanotube. Journal of the American Chemical Society, 2003, 125, 9372-9376.	6.6	304
11	Self-Assembling Cyclic Î²3-Peptide Nanotubes as Artificial Transmembrane Ion Channels. Journal of the American Chemical Society, 1998, 120, 651-656.	6.6	294
12	A chiroselective peptide replicator. Nature, 2001, 409, 797-801.	13.7	292
13	Ion Channel Models Based on Self-Assembling Cyclic Peptide Nanotubes. Accounts of Chemical Research, 2013, 46, 2955-2965.	7.6	287
14	Secondary structure nucleation in peptides. Transition metal ion stabilized .alpha.-helices. Journal of the American Chemical Society, 1990, 112, 1630-1632.	6.6	276
15	Channel-Mediated Transport of Glucose across Lipid Bilayers. Journal of the American Chemical Society, 1994, 116, 10785-10786.	6.6	258
16	Modular Multi-Level Circuits from Immobilized DNA-Based Logic Gates. Journal of the American Chemical Society, 2007, 129, 14875-14879.	6.6	256
17	DNA-Based Photonic Logic Gates:Â AND, NAND, and INHIBIT. Journal of the American Chemical Society, 2003, 125, 346-347.	6.6	254
18	The Structural and Thermodynamic Basis for the Formation of Self-Assembled Peptide Nanotubes. Angewandte Chemie International Edition in English, 1995, 34, 93-95.	4.4	249

#	Article	IF	Citations
19	Peptide Nanotubes and Beyond. Chemistry - A European Journal, 1998, 4, 1367-1372.	1.7	247
20	Emergence of symbiosis in peptide self-replication through a hypercyclic network. Nature, 1997, 390, 591-594.	13.7	246
21	Nanoscale Tubular Ensembles with Specified Internal Diameters. Design of a Self-Assembled Nanotube with a 13-.ANG. Pore. Journal of the American Chemical Society, 1994, 116, 6011-6012.	6.6	238
22	A Single-Molecule Nanopore Device Detects DNA Polymerase Activity with Single-Nucleotide Resolution. Journal of the American Chemical Society, 2008, 130, 818-820.	6.6	215
23	Boolean Logic Functions of a Synthetic Peptide Network. Journal of the American Chemical Society, 2004, 126, 11140-11141.	6.6	210
24	Oriented Self-Assembly of Cyclic Peptide Nanotubes in Lipid Membranes. Journal of the American Chemical Society, 1998, 120, 4417-4424.	6.6	208
25	Supramolecular Design by Covalent Capture. Design of a Peptide Cylinder via Hydrogen-Bond-Promoted Intermolecular Olefin Metathesis. Journal of the American Chemical Society, 1995, 117, 12364-12365.	6.6	194
26	Design of a directed molecular network. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10872-10877.	3.3	193
27	DNA Detection and Signal Amplification via an Engineered Allosteric Enzyme. Journal of the American Chemical Society, 2003, 125, 344-345.	6.6	192
28	Self-Assembling Sequence-Adaptive Peptide Nucleic Acids. Science, 2009, 325, 73-77.	6.0	190
29	Design of Self-Assembling Peptide Nanotubes with Delocalized Electronic States. Small, 2006, 2, 99-102.	5.2	189
30	Recognizing a Single Base in an Individual DNA Strand: A Step Toward DNA Sequencing in Nanopores. Angewandte Chemie - International Edition, 2005, 44, 1401-1404.	7.2	181
31	Cylindrical Î²-Sheet Peptide Assemblies. Journal of the American Chemical Society, 1998, 120, 8949-8962.	6.6	178
32	Structure and Dynamics of Self-Assembling Peptide Nanotubes and the Channel-Mediated Water Organization and Self-Diffusion. A Molecular Dynamics Study. Journal of the American Chemical Society, 1995, 117, 9151-9158.	6.6	163
33	Photoswitchable Hydrogen-Bonding in Self-Organized Cylindrical Peptide Systems. Angewandte Chemie - International Edition, 1999, 38, 1598-1601.	7.2	161
34	Diffusion-Limited Size-Selective Ion Sensing Based on SAM-Supported Peptide Nanotubes. Journal of the American Chemical Society, 1997, 119, 11306-11312.	6.6	154
35	Modulating Ion Channel Properties of Transmembrane Peptide Nanotubes through Heteromeric Supramolecular Assemblies. Journal of the American Chemical Society, 2002, 124, 10004-10005.	6.6	152
36	A synthetic peptide ligase. Nature, 1997, 389, 706-709.	13.7	151

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37	Efficient Route toC2Symmetric Heterocyclic Backbone Modified Cyclic Peptides. Organic Letters, 2005, 7, 4503-4506.	2.4	146
38	Systemic Antibacterial Activity of Novel Synthetic Cyclic Peptides. Antimicrobial Agents and Chemotherapy, 2005, 49, 3302-3310.	1.4	144
39	Probing the Bioactive Conformation of an Archetypal Natural Product HDAC Inhibitor with Conformationally Homogeneous Triazoleâ€Modified Cyclic Tetrapeptides. Angewandte Chemie - International Edition, 2009, 48, 4718-4724.	7.2	141
40	Peptide architecture. Design of stable .alpha.-helical metallopeptides via a novel exchange-inert ruthenium(III) complex. Journal of the American Chemical Society, 1990, 112, 9633-9635.	6.6	135
41	Cyclic Peptides as Molecular Adapters for a Pore-Forming Protein. Journal of the American Chemical Society, 2000, 122, 11757-11766.	6.6	134
42	A virocidal amphipathic Î±-helical peptide that inhibits hepatitis C virus infection in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3088-3093.	3.3	129
43	Antiviral cyclic d,l-Î±-peptides: Targeting a general biochemical pathway in virus infections. Bioorganic and Medicinal Chemistry, 2005, 13, 5145-5153.	1.4	119
44	Autocatalytic networks: the transition from molecular self-replication to molecular ecosystems. Current Opinion in Chemical Biology, 1997, 1, 491-496.	2.8	117
45	Modulating Charge Transfer through CyclicD,L-?-Peptide Self-Assembly. Chemistry - A European Journal, 2005, 11, 1137-1144.	1.7	116
46	Peptide Selfâ€Replication Via Templateâ€Directed Ligation. Chemistry - A European Journal, 1997, 3, 1017-1024.	1.7	112
47	Î²-Sheet Peptide Architecture: Measuring the Relative Stability of Parallel vs. AntiparallelÎ²-Sheets. Angewandte Chemie International Edition in English, 1995, 34, 95-98.	4.4	107
48	Self-assembled nanoscale tubular ensembles. Advanced Materials, 1995, 7, 675-677.	11.1	106
49	A Synthetic Pore-Mediated Transmembrane Transport of Glutamic Acid. Angewandte Chemie - International Edition, 2001, 40, 2503-2506.	7.2	105
50	De Novo Design of a Novel Heterodinuclear Three-Helix Bundle Metalloprotein. Angewandte Chemie International Edition in English, 1993, 32, 1594-1597.	4.4	100
51	Dynamic Error Correction in Autocatalytic Peptide Networks. Angewandte Chemie - International Edition, 1998, 37, 126-128.	7.2	93
52	DNA hybridization-enhanced porous silicon corrosion: mechanistic investigations and prospect for optical interferometric biosensing. Tetrahedron, 2004, 60, 11259-11267.	1.0	91
53	Conformationally Homogeneous Heterocyclic Pseudotetrapeptides as Threeâ€Dimensional Scaffolds for Rational Drug Design: Receptorâ€Selective Somatostatin Analogues. Angewandte Chemie - International Edition, 2009, 48, 4725-4729.	7.2	90
54	Peptide Macrocyclization Inspired by Non-Ribosomal Imine Natural Products. Journal of the American Chemical Society, 2017, 139, 5233-5241.	6.6	90

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55	Single DNA Rotaxanes of a Transmembrane Pore Protein. Angewandte Chemie - International Edition, 2004, 43, 3063-3067.	7.2	78
56	Design, Synthesis, Biological Evaluation, and Structural Characterization of Potent Histone Deacetylase Inhibitors Based on Cyclic Î±/Î²-Tetrapeptide Architectures. Journal of the American Chemical Society, 2009, 131, 3033-3041.	6.6	78
57	Covalent Capture and Stabilization of CylindricalÎ²-Sheet Peptide Assemblies. Chemistry - A European Journal, 1999, 5, 782-792.	1.7	75
58	Sequenceâ€Addressable DNA Logic. Small, 2008, 4, 427-431.	5.2	73
59	Discovery of Potent and Selective Histone Deacetylase Inhibitors via Focused Combinatorial Libraries of Cyclic Î±₃Î²-Tetrapeptides. Journal of Medicinal Chemistry, 2009, 52, 7836-7846.	2.9	73
60	Self-Assembling Organic Nanotubes. Angewandte Chemie - International Edition, 2001, 40, 988-1011.	7.2	72
61	Design of Molecular Logic Devices Based on a Programmable DNA-Regulated Semisynthetic Enzyme. Angewandte Chemie - International Edition, 2007, 46, 3955-3958.	7.2	71
62	Strukturelle und thermodynamische Voraussetzungen fÃ¼r die Bildung selbstorganisierter rÃ¶hrenfÃ¶rmiger Peptidâ€Nanostrukturen. Angewandte Chemie, 1995, 107, 76-78.	1.6	70
63	Directed remodeling of the mouse gut microbiome inhibits the development of atherosclerosis. Nature Biotechnology, 2020, 38, 1288-1297.	9.4	70
64	Reversible Photoisomerization of Self-Organized Cylindrical Peptide Assemblies at Airâˆ’Water and Solid Interfaces. Langmuir, 1999, 15, 3956-3964.	1.6	67
65	Automated Mass Spectrometric Sequence Determination of Cyclic Peptide Library Members. ACS Combinatorial Science, 2003, 5, 33-40.	3.3	60
66	A Combinatorial Approach to the Discovery of Biocidal Six-Residue Cyclicd,l-Î±-Peptides Against the Bacteria Methicillin-ResistantStaphylococcus aureus (MRSA) andE. coli and the Biofouling AlgaeUlva linza andNavicula perminuta. Chemistry - A European Journal, 2007, 13, 4008-4013.	1.7	60
67	Antibacterial cyclic d,l-Î±-glycopeptides. Chemical Communications, 2009, , 3693.	2.2	60
68	Self-Assembling Cyclic Peptide Cylinders as Nuclei for Crystal Engineering. Angewandte Chemie - International Edition, 2001, 40, 2163-2166.	7.2	59
69	Universal Translators for Nucleic Acid Diagnosis. Journal of the American Chemical Society, 2009, 131, 9368-9377.	6.6	59
70	Crystalline Cyclic Peptide Nanotubes at Interfaces. Journal of the American Chemical Society, 1999, 121, 1186-1191.	6.6	49
71	A de Novo Designed Peptide Ligase:â€‰ A Mechanistic Investigation. Journal of the American Chemical Society, 2001, 123, 1797-1803.	6.6	48
72	Discovery of HDAC Inhibitors That Lack an Active Site Zn²⁺-Binding Functional Group. ACS Medicinal Chemistry Letters, 2012, 3, 505-508.	1.3	47

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73	Realâ€Time Monitoring of DNA Polymerase Function and Stepwise Singleâ€Nucleotide DNA Strand Translocation through a Protein Nanopore. Angewandte Chemie - International Edition, 2010, 49, 10106-10109.	7.2	46
74	Self-Assembling Peptide Nanotubes with Antiviral Activity against Hepatitis C Virus. Chemistry and Biology, 2011, 18, 1453-1462.	6.2	44
75	Structure-Based Engineering of Internal Cavities in Coiled-Coil Peptides,. Biochemistry, 2005, 44, 9723-9732.	1.2	42
76	Recognizing a Single Base in an Individual DNA Strand: A Step Toward DNA Sequencing in Nanopores. Angewandte Chemie, 2005, 117, 1425-1428.	1.6	37
77	Catalyzed Oxidative Corrosion of Porous Silicon Used as an Optical Transducer for Ligandâ€“Receptor Interactions. ChemBioChem, 2008, 9, 1776-1786.	1.3	37
78	Natural and Synthetic Macrocyclic Inhibitors of the Histone Deacetylase Enzymes. ChemBioChem, 2017, 18, 5-49.	1.3	37
79	Macrocyclic Peptoidâ€“Peptide Hybrids as Inhibitors of Class I Histone Deacetylases. ACS Medicinal Chemistry Letters, 2012, 3, 749-753.	1.3	34
80	Stereoselection in designed three-helix bundle metalloproteins. Chirality, 1998, 10, 35-40.	1.3	30
81	Transition metal mediated surface modification of porous silicon. Tetrahedron, 2001, 57, 5131-5136.	1.0	30
82	Biomimetic Catalysis of Intermodular Aminoacyl Transfer. Journal of the American Chemical Society, 2007, 129, 748-749.	6.6	29
83	Self-Assembling Cyclic <scp>d</scp>,<scp>l</scp>-Î±-Peptides as Modulators of Plasma HDL Function. A Supramolecular Approach toward Antiatherosclerotic Agents. ACS Central Science, 2017, 3, 639-646.	5.3	28
84	Zur Architektur von Peptiden: Bestimmung der relativen StabilitÄt von parallelen und antiparallelen Î²â€FaltblÄttern. Angewandte Chemie, 1995, 107, 79-81.	1.6	27
85	Biomimetic Catalysis of Diketopiperazine and Dipeptide Syntheses. Angewandte Chemie - International Edition, 2008, 47, 1758-1761.	7.2	27
86	Potential Agents for Treating Cystic Fibrosis: Cyclic Tetrapeptides That Restore Trafficking and Activity of Î”F508-CFTR. ACS Medicinal Chemistry Letters, 2011, 2, 703-707.	1.3	27
87	Design of a DNA-Programmed Plasminogen Activator. Journal of the American Chemical Society, 2018, 140, 15516-15524.	6.6	27
88	Cyclic tetrapeptide HDAC inhibitors as potential therapeutics for spinal muscular atrophy: Screening with iPSC-derived neuronal cells. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 3289-3293.	1.0	25
89	Functional and Mechanistic Analyses of Biomimetic Aminoacyl Transfer Reactions in de Novo Designed Coiled Coil Peptides via Rational Active Site Engineering. Journal of the American Chemical Society, 2007, 129, 2959-2966.	6.6	23
90	Self-assembly of peptide based nanotubes. Materials Science and Engineering C, 1997, 4, 207-212.	3.8	21

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91	Peptide Bond Formation in Water Mediated by Carbon Disulfide. Astrobiology, 2015, 15, 709-716.	1.5	16
92	Potentially Prebiotic Synthesis of Î±-Amino Thioacids in Water. Synlett, 2016, 28, 68-72.	1.0	7
93	Templated Self-Assembly of Dynamic Peptide Nucleic Acids. Biochemistry, 2018, 57, 160-172.	1.2	7
94	Self Assembling Organic Nanotubes. , 1996, , 181-188.		1
95	Peptide Nanotubes and Beyond. , 1998, 4, 1367.		1
96	Cover Picture: Single DNA Rotaxanes of a Transmembrane Pore Protein (Angew. Chem. Int. Ed. 23/2004). Angewandte Chemie - International Edition, 2004, 43, 2977-2977.	7.2	0
97	A kinetically controlled, isothermal method for the detection of single nucleotide mismatches. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2754-2758.	1.0	0