

# Juan Granja

## List of Publications by Citations

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111  
papers

9,096  
citations

39  
h-index

95  
g-index

130  
ext. papers

9,722  
ext. citations

8.9  
avg, IF

5.87  
L-index

#	Paper	IF	Citations
111	Self-assembling organic nanotubes based on a cyclic peptide architecture. <i>Nature</i> , <b>1993</b> , 366, 324-7	50.4	1469
110	Self-Assembling Organic Nanotubes. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 988-1011	16.4	944
109	Antibacterial agents based on the cyclic D,L-alpha-peptide architecture. <i>Nature</i> , <b>2001</b> , 412, 452-5	50.4	827
108	Artificial transmembrane ion channels from self-assembling peptide nanotubes. <i>Nature</i> , <b>1994</b> , 369, 301-4	50.4	810
107	Self-Assembling Peptide Nanotubes. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 43-50	16.4	536
106	A self-replicating peptide. <i>Nature</i> , <b>1996</b> , 382, 525-8	50.4	507
105	Ion channel models based on self-assembling cyclic peptide nanotubes. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 2955-65	24.3	235
104	Channel-Mediated Transport of Glucose across Lipid Bilayers. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 10785-10786	16.4	232
103	Towards functional bionanomaterials based on self-assembling cyclic peptide nanotubes. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 1448-56	58.5	219
102	The Structural and Thermodynamic Basis for the Formation of Self-Assembled Peptide Nanotubes. <i>Angewandte Chemie International Edition in English</i> , <b>1995</b> , 34, 93-95		216
101	Organische Nanoröhren durch Selbstorganisation. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 1016-1041	3.6	206
100	Nanoscale Tubular Ensembles with Specified Internal Diameters. Design of a Self-Assembled Nanotube with a 13-ANG. Pore. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 6011-6012	16.4	205
99	New cyclic peptide assemblies with hydrophobic cavities: the structural and thermodynamic basis of a new class of peptide nanotubes. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 2844-5	16.4	180
98	Systemic antibacterial activity of novel synthetic cyclic peptides. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2005</b> , 49, 3302-10	5.9	131
97	β-Sheet Peptide Architecture: Measuring the Relative Stability of Parallel vs. Antiparallel β-Sheets. <i>Angewandte Chemie International Edition in English</i> , <b>1995</b> , 34, 95-98		98
96	Alpha,gamma-peptide nanotube templating of one-dimensional parallel fullerene arrangements. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 11335-7	16.4	79
95	Transmembrane ion transport by self-assembling α-peptide nanotubes. <i>Chemical Science</i> , <b>2012</b> , 3, 3280	9.4	71

94	Self-assembled peptide tubelets with 7 Å pores. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 6543-51	4.8	69
93	Methyl-blocked dimeric alpha,gamma-peptide nanotube segments: formation of a peptide heterodimer through backbone-backbone interactions. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 5710-3	16.4	68
92	Self-Assembling Organic Nanotubes. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 988-1011	16.4	67
91	Large-diameter self-assembled dimers of alpha,gamma-cyclic peptides, with the nanotubular solid-state structure of cyclo-[(L-Leu-D-(Me)N-gamma-Acp)(4)].4CHCl(2)COOH. <i>Chemical Communications</i> , <b>2007</b> , 3267-9	5.8	66
90	Coupling of carbon and peptide nanotubes. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 2484-91	16.4	65
89	Synthesis of hydrindan derivatives related to vitamin D. <i>Journal of Organic Chemistry</i> , <b>1992</b> , 57, 3173-3178	3.2	60
88	Controlling multiple fluorescent signal output in cyclic peptide-based supramolecular systems. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 1653-7	16.4	59
87	Strukturelle und thermodynamische Voraussetzungen für die Bildung selbstorganisierter ringförmiger Peptid-Nanostrukturen. <i>Angewandte Chemie</i> , <b>1995</b> , 107, 76-78	3.6	57
86	In Situ Functionalized Polymers for siRNA Delivery. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 7492-5	16.4	57
85	Electron transfer in Me-blocked heterodimeric alpha,gamma-peptide nanotubular donor-acceptor hybrids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 5291-4	11.5	53
84	Recent advances in controlling the internal and external properties of self-assembling cyclic peptide nanotubes and dimers. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 4490-4505	3.9	51
83	Folding control in cyclic peptides through N-methylation pattern selection: formation of antiparallel beta-sheet dimers, double reverse turns and supramolecular helices by 3alpha,gamma cyclic peptides. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 2100-11	4.8	49
82	Synthesis of N-(3-arylpropyl)amino acid derivatives by Sonogashira types of reaction in aqueous media. <i>Organic Letters</i> , <b>2001</b> , 3, 2823-6	6.2	49
81	Self-Assembling Molecular Capsules Based on Cyclic Peptides. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 776-784	16.4	48
80	Supramolecular functional assemblies: dynamic membrane transporters and peptide nanotubular composites. <i>Chemical Communications</i> , <b>2017</b> , 53, 7861-7871	5.8	47
79	Synthesis of Cyclic Amino Acids for Foldamers and Peptide Nanotubes. <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 3477-3493	3.2	44
78	Access to [6.4.0]carbocyclic systems by tandem metathesis of dienyne. A step toward the synthesis of a PreD3-D3 transition state analogue. <i>Organic Letters</i> , <b>2001</b> , 3, 1483-6	6.2	44
77	Palladium-catalysed [3+2] cycloaddition of alk-5-ynylidenecyclopropanes to alkynes: a mechanistic DFT study. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 272-81	4.8	43

76	Tandem RCM of dienyne for the construction of taxol-type carbocyclic systems. <i>Organic Letters</i> , <b>2004</b> , 6, 193-6	6.2	43
75	Alpha,gamma-cyclic peptide ensembles with a hydroxylated cavity. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 4358-61	3.9	42
74	pH-Triggered self-assembly and hydrogelation of cyclic peptide nanotubes confined in water micro-droplets. <i>Nanoscale Horizons</i> , <b>2018</b> , 3, 391-396	10.8	40
73	Theoretical characterization of the dynamical behavior and transport properties of alpha,gamma-peptide nanotubes in solution. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15678-86	16.4	40
72	Self-Assembly of Silver Metal Clusters of Small Atomicity on Cyclic Peptide Nanotubes. <i>ACS Nano</i> , <b>2015</b> , 9, 10834-43	16.7	38
71	The smallest alpha,gamma-peptide nanotubulet segments: cyclic alpha,gamma-tetrapeptide dimers. <i>Organic Letters</i> , <b>2005</b> , 7, 4681-4	6.2	37
70	Interaction and dimerization energies in methyl-blocked alpha,gamma-peptide nanotube segments. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 4973-83	3.4	31
69	Liquid crystal organization of self-assembling cyclic peptides. <i>Chemical Communications</i> , <b>2014</b> , 50, 688-90	9.8	29
68	RCM for the construction of novel steroid-like polycyclic systems. 1. Studies on the synthesis of a PreD3-D3 transition state analogue. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 8281-90	4.2	29
67	Self-assembling cyclic peptides that generate cavities with tunable properties. <i>Chemical Science</i> , <b>2016</b> , 7, 183-187	9.4	27
66	Synthesis of omega-(hetero)arylalkynylated alpha-amino acid by Sonogashira-type reactions in aqueous media. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 7870-3	4.2	27
65	Toward an efficient synthesis of taxane analogs by dienyne ring-closing metathesis. <i>Organic Letters</i> , <b>2008</b> , 10, 3789-92	6.2	26
64	Anion Recognition and Induced Self-Assembly of an Cyclic Peptide To Form Spherical Clusters. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 4504-8	16.4	26
63	Different-Length Hydrazone Activated Polymers for Plasmid DNA Condensation and Cellular Transfection. <i>Biomacromolecules</i> , <b>2018</b> , 19, 2638-2649	6.9	25
62	Regioisomeric control induced by DABCO coordination to rotatable self-assembled bis- and tetraporphyrin Cyclic octapeptide dimers. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 1220-9	4.8	24
61	Dienyne ring-closing metathesis approach for the construction of taxosteroids. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 5135-50	4.8	23
60	Self-assembling Venturi-like peptide nanotubes. <i>Nanoscale</i> , <b>2017</b> , 9, 748-753	7.7	22
59	Zur Architektur von Peptiden: Bestimmung der relativen Stabilität von parallelen und antiparallelen Faltblättern. <i>Angewandte Chemie</i> , <b>1995</b> , 107, 79-81	3.6	22

58	Self-assembling properties of all cyclic peptides containing sugar amino acid residues. <i>Organic and Biomolecular Chemistry</i> , <b>2012</b> , 10, 8762-6	3.9	21
57	A carbonyl 1,1-zwitterion synthon for ester and macrolide synthesis. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 1044-1046	16.4	21
56	Membrane-targeted self-assembling cyclic peptide nanotubes. <i>Current Topics in Medicinal Chemistry</i> , <b>2014</b> , 14, 2647-61	3	21
55	New self-assembling peptide nanotubes of large diameter using amino acids. <i>Chemical Science</i> , <b>2018</b> , 9, 8228-8233	9.4	20
54	Toward an analogue of the transition state of preD3-D3 isomerization: stereoselective synthesis of linearly fused 6-8-6 carbocyclic systems. <i>Organic Letters</i> , <b>2002</b> , 4, 1651-4	6.2	20
53	Studies on the opening of dioxanone and acetal templates and application to the synthesis of 1.alpha.,25-dihydroxyvitamin D2. <i>Journal of Organic Chemistry</i> , <b>1993</b> , 58, 124-131	4.2	19
52	(2,3)-Wittig sigmatropic rearrangements in steroid synthesis. New stereocontrolled approach to steroidal side chains at C-20. <i>Tetrahedron Letters</i> , <b>1985</b> , 26, 4959-4960	2	19
51	Design of stable sheet-based cyclic peptide assemblies assisted by metal coordination: selective homo- and heterodimer formation. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 4826-34	4.8	18
50	Methyl-Blocked Dimeric Peptide Nanotube Segments: Formation of a Peptide Heterodimer through Backbone-Backbone Interactions. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 5856-5859	3.6	18
49	Spatially Controlled Supramolecular Polymerization of Peptide Nanotubes by Microfluidics. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6902-6908	16.4	17
48	Toward the rational design of molecular rotors ion sensors based on cyclic peptide dimers. <i>Amino Acids</i> , <b>2011</b> , 41, 621-8	3.5	17
47	New Synthetic Strategies to Vitamin D Analogues Modified at the Side Chain and D Ring. Synthesis of 1.alpha.,25-Dihydroxy-16-ene-vitamin D(3) and C-20 Analogues(1). <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 3196-3206	4.2	17
46	Novel synthesis of platinum complexes and their intracellular delivery to tumor cells by means of magnetic nanoparticles. <i>Nanoscale</i> , <b>2019</b> , 11, 23482-23497	7.7	17
45	Regioselective joining of prenyl units. A simple strategy for geometry control in Pd catalyzed allylic alkylations. <i>Tetrahedron Letters</i> , <b>1991</b> , 32, 2193-2196	2	16
44	In Situ Functionalized Polymers for siRNA Delivery. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 7618-7621	3.6	15
43	Self-Sorting of cyclic peptide homodimers into a heterodimeric assembly featuring an efficient photoinduced intramolecular electron-transfer process. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 3427-38 <sup>8</sup>	4.8	15
42	Highly efficient and directional homo- and heterodimeric energy transfer materials based on fluorescently derivatized cyclic octapeptides. <i>Chemistry - an Asian Journal</i> , <b>2011</b> , 6, 110-21	4.5	15
41	Design and synthesis of 1,25-dihydroxyvitamin D3 analogues with fixed torsion angle C(16-17-20-22). <i>Tetrahedron Letters</i> , <b>1998</b> , 39, 4725-4728	2	15

40	New alpha,gamma-cyclic peptides-nanotube molecular caps using alpha,alpha-dialkylated alpha-amino acids. <i>Journal of Peptide Science</i> , <b>2008</b> , 14, 241-9	2.1	15
39	Single-nucleotide-resolution DNA differentiation by pattern generation in lipid bilayer membranes. <i>Small</i> , <b>2014</b> , 10, 3613-8	11	14
38	Synthesis of 2-ene-1,4-diols by a new cascade-opening of 1,3-diepoxides: towards an efficient synthesis of dihydroxytaxoid derivatives. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 4785-7	4.8	14
37	cis-Platinum Complex Encapsulated in Self-Assembling Cyclic Peptide Dimers. <i>Organic Letters</i> , <b>2017</b> , 19, 2560-2563	6.2	13
36	Feasibility of associative mechanism in enyne metathesis catalyzed by grubbs complexes. <i>Dalton Transactions</i> , <b>2007</b> , 2925-34	4.3	13
35	Molecular pom poms from self-assembling $\beta$ -cyclic peptides. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 10260-5	4.8	10
34	Effect of Organochloride Guest Molecules on the Stability of Homo/Hetero Self-Assembled $\beta$ -Cyclic Peptide Structures: A Computational Study Toward the Control of Nanotube Length. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 10143-10162	3.8	10
33	Supramolecular Recognition and Selective Protein Uptake by Peptide Hybrids. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 10689-10698	4.8	9
32	Synthesis of vitamin D analogues with a 2-hydroxy-3-deoxy ring A. <i>Tetrahedron Letters</i> , <b>2000</b> , 41, 5861-5864	5.6	9
31	Competitive double-switched self-assembled cyclic peptide nanotubes: a dual internal and external control. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 20750-20756	3.6	8
30	An Efficient Approach to the Unnatural Chirality of Steroid Side Chains at C-20. <i>Synthetic Communications</i> , <b>1987</b> , 17, 251-256	1.7	8
29	Stereoselective synthesis of 25-hydroxyvitamin D <sub>2</sub> side chain via the acetal template route. <i>Tetrahedron Letters</i> , <b>1987</b> , 28, 4589-4590	2	8
28	Spatially Controlled Supramolecular Polymerization of Peptide Nanotubes by Microfluidics. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 6969-6975	3.6	7
27	Tight Xenon Confinement in a Crystalline Sandwich-like Hydrogen-Bonded Dimeric Capsule of a Cyclic Peptide. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14472-14476	16.4	7
26	Versatile symport transporters based on cyclic peptide dimers. <i>Chemical Communications</i> , <b>2019</b> , 56, 46-49	4.8	7
25	Parallel Versus Antiparallel $\beta$ -Sheet Structure in Cyclic Peptide Hybrids Containing $\beta$ - or $\beta$ -Cyclic Amino Acids. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 5846-5858	4.8	7
24	Towards taxane analogues synthesis by dienyne ring closing metathesis. <i>Organic Chemistry Frontiers</i> , <b>2016</b> , 3, 1331-1336	5.2	6
23	Design, Synthesis, and Structural Analysis of Turn Modifiedcyclo-( $\beta$ -CD) Peptide Derivatives toward Crystalline Hexagon-Shaped Cationic Nanochannel Assemblies. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 4355-4367	3.5	6

22	Self-assembling Cyclic $\alpha,\gamma$ -Tetrapeptides. <i>Heterocycles</i> , <b>2006</b> , 67, 575	0.8	6
21	Membrane targeting antimicrobial cyclic peptide nanotubes - an experimental and computational study. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 196, 111349	6	6
20	Dienyne RCM/Diels-Alder approach for the construction of novel steroid-like polycyclic systems. <i>Tetrahedron Letters</i> , <b>2006</b> , 47, 6587-6589	2	5
19	Bioinspired Artificial Sodium and Potassium Ion Channels. <i>Metal Ions in Life Sciences</i> , <b>2016</b> , 16, 485-556	2.6	5
18	Induced $\beta$ -Cyclic peptide rotodimer recognition by nucleobase scaffolds. <i>Peptide Science</i> , <b>2020</b> , 112, e24132	3	5
17	One step construction of a taxane-like skeleton by a diendiyne metathesis cyclization reaction. <i>Organic Chemistry Frontiers</i> , <b>2017</b> , 4, 460-466	5.2	4
16	Anion Recognition and Induced Self-Assembly of an $\beta$ -Cyclic Peptide To Form Spherical Clusters. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 4580-4584	3.6	4
15	Synthesis of Supramolecular Nanotubes <b>2012</b> ,		4
14	Three-Dimensional Water Channel Embedded in an $\beta$ -Cyclic Octapeptide-Derived Organic Porous Material. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 3351-3357	3.5	4
13	[2,3]-Wittig Sigmatropic Rearrangement of Steroidal 16 $\beta$ -Propargyl Ethers for the Synthesis of 25-Hydroxyvitamin D Side Chain Analogues. <i>Synthetic Communications</i> , <b>1991</b> , 21, 2033-2038	1.7	3
12	Double Orthogonal Click Reactions for the Development of Antimicrobial Peptide Nanotubes. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 3029-3038	4.8	3
11	Tight Xenon Confinement in a Crystalline Sandwich-like Hydrogen-Bonded Dimeric Capsule of a Cyclic Peptide. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14614-14618	3.6	2
10	Effect of Water Models on Transmembrane Self-Assembled Cyclic Peptide Nanotubes. <i>ACS Nano</i> , <b>2021</b> , 15, 7053-7064	16.7	2
9	Self-Assembling Peptide Nanotubes <b>1999</b> , 61-66		1
8	Molecular Plumbing to Bend Self-Assembling Peptide Nanotubes. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 18838-18844	16.4	1
7	Macromolecular assembly and membrane activity of antimicrobial D,L- $\beta$ -Cyclic peptides. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 208, 112086	6	1
6	Transmembrane Self-Assembled Cyclic Peptide Nanotubes Based on $\beta$ -Residues and Cyclic $\beta$ -Amino Acids: A Computational Study. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 704160	5	0
5	Cyclization and Self-Assembly of Cyclic Peptides. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2371, 449-466	1.4	0

- 4 Partition of antimicrobial D-L-cyclic peptides into bacterial model membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **2022**, 1864, 183729 3.8 0
- 3 Biomembranes: Single-Nucleotide-Resolution DNA Differentiation by Pattern Generation in Lipid Bilayer Membranes (Small 18/2014). *Small*, **2014**, 10, 3612-3612 11
- 2 Molecular Plumbing to Bend Self-Assembling Peptide Nanotubes. *Angewandte Chemie*, **2021**, 133, 18986-18992 3.6
- 1 Reaktitelbild: In Situ Functionalized Polymers for siRNA Delivery (Angew. Chem. 26/2016). *Angewandte Chemie*, **2016**, 128, 7676-7676 3.6