Juan Granja

List of Publications by Year
in descending order

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110	10,463	76294 40	31818 101
papers	citations	h-index	g-index

130	130	130	6661
all docs	docs citations	times ranked	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	Self-Assembling Organic Nanotubes. Angewandte Chemie - International Edition, 2001, 40, 988-1011.	7.2	1,053
3	Artificial transmembrane ion channels from self-assembling peptide nanotubes. Nature, 1994, 369, 301-304.	13.7	926
4	Antibacterial agents based on the cyclic d,l-Î±-peptide architecture. Nature, 2001, 412, 452-455.	13.7	910
5	A self-replicating peptide. Nature, 1996, 382, 525-528.	13.7	620
6	Self-Assembling Peptide Nanotubes. Journal of the American Chemical Society, 1996, 118, 43-50.	6.6	593
7	Ion Channel Models Based on Self-Assembling Cyclic Peptide Nanotubes. Accounts of Chemical Research, 2013, 46, 2955-2965.	7.6	287
8	Channel-Mediated Transport of Glucose across Lipid Bilayers. Journal of the American Chemical Society, 1994, 116, 10785-10786.	6.6	258
9	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
10	Towards functional bionanomaterials based on self-assembling cyclic peptidenanotubes. Chemical Society Reviews, 2010, 39, 1448-1456.	18.7	246
11	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
12	New Cyclic Peptide Assemblies with Hydrophobic Cavities:Â The Structural and Thermodynamic Basis of a New Class of Peptide Nanotubes. Journal of the American Chemical Society, 2003, 125, 2844-2845.	6.6	191
13	Systemic Antibacterial Activity of Novel Synthetic Cyclic Peptides. Antimicrobial Agents and Chemotherapy, 2005, 49, 3302-3310.	1.4	144
14	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
15	Î±,Î³-Peptide Nanotube Templating of One-Dimensional Parallel Fullerene Arrangements. Journal of the American Chemical Society, 2009, 131, 11335-11337.	6.6	81
16	Transmembrane ion transport by self-assembling Î±,Î³-peptide nanotubes. Chemical Science, 2012, 3, 3280.	3.7	81
17	Self-Assembled Peptide Tubelets with 7 Ã... Pores. Chemistry - A European Journal, 2005, 11, 6543-6551.	1.7	73
18	Coupling of Carbon and Peptide Nanotubes. Journal of the American Chemical Society, 2014, 136, 2484-2491.	6.6	73

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19	In Situ Functionalized Polymers for siRNA Delivery. Angewandte Chemie - International Edition, 2016, 55, 7492-7495.	7.2	73
20	Self-Assembling Organic Nanotubes. Angewandte Chemie - International Edition, 2001, 40, 988-1011.	7.2	72
21	Strukturelle und thermodynamische Voraussetzungen fÃ¼r die Bildung selbstorganisierter rÃ¶hrenfÃ¶rmiger Peptidâ€Nanostrukturen. Angewandte Chemie, 1995, 107, 76-78.	1.6	70
22	Methyl-Blocked Dimeric Î±,Î³-Peptide Nanotube Segments: Formation of a Peptide Heterodimer through Backbone-Backbone Interactions. Angewandte Chemie - International Edition, 2005, 44, 5710-5713.	7.2	69
23	Large-diameter self-assembled dimers of Î±,Î³-cyclic peptides, with the nanotubular solid-state structure of cyclo-[(l-Leu-d-MeN-Î³-Acp)4-]Â·4CHCl2COOH. Chemical Communications, 2007, , 3267.	2.2	69
24	Synthesis of hydrindan derivatives related to vitamin D. Journal of Organic Chemistry, 1992, 57, 3173-3178.	1.7	68
25	Recent advances in controlling the internal and external properties of self-assembling cyclic peptide nanotubes and dimers. Organic and Biomolecular Chemistry, 2017, 15, 4490-4505.	1.5	66
26	Controlling Multiple Fluorescent Signal Output in Cyclic Peptide-Based Supramolecular Systems. Journal of the American Chemical Society, 2007, 129, 1653-1657.	6.6	65
27	Self-Assembling Molecular Capsules Based on Î±,Î³-Cyclic Peptides. Journal of the American Chemical Society, 2017, 139, 776-784.	6.6	64
28	Supramolecular functional assemblies: dynamic membrane transporters and peptide nanotubular composites. Chemical Communications, 2017, 53, 7861-7871.	2.2	63
29	pH-Triggered self-assembly and hydrogelation of cyclic peptide nanotubes confined in water micro-droplets. Nanoscale Horizons, 2018, 3, 391-396.	4.1	60
30	Synthesis ofN-(3-Arylpropyl)amino Acid Derivatives by Sonogashira Types of Reaction in Aqueous Mediaâ€. Organic Letters, 2001, 3, 2823-2826.	2.4	57
31	Electron transfer in Me-blocked heterodimeric Â,Â-peptide nanotubular donor-acceptor hybrids. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5291-5294.	3.3	56
32	Folding Control in Cyclic Peptides through Nâ€Methylation Pattern Selection: Formation of Antiparallel Î²â€Sheet Dimers, Double Reverse Turns and Supramolecular Helices by 3Î±,Î³ Cyclic Peptides. Chemistry - A European Journal, 2008, 14, 2100-2111.	1.7	50
33	Synthesis of Cyclic Î³â€Amino Acids for Foldamers and Peptide Nanotubes. European Journal of Organic Chemistry, 2013, 2013, 3477-3493.	1.2	49
34	Access to [6.4.0]Carbocyclic Systems by Tandem Metathesis of Dienynes. A Step toward the Synthesis of a PreD3â^'D3Transition State Analogueâ€. Organic Letters, 2001, 3, 1483-1486.	2.4	48
35	Tandem RCM of Dienynes for the Construction of Taxol-Type Carbocyclic Systems. Organic Letters, 2004, 6, 193-196.	2.4	48
36	Self-Assembly of Silver Metal Clusters of Small Atomicity on Cyclic Peptide Nanotubes. ACS Nano, 2015, 9, 10834-10843.	7.3	46

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37	Palladium-Catalysed [3+2] Cycloaddition of Alk-5-ynylidenecyclopropanes to Alkynes: A Mechanistic DFT Study. Chemistry - A European Journal, 2008, 14, 272-281.	1.7	45
38	Î±,Î³-Cyclic peptide ensembles with a hydroxylated cavity. Organic and Biomolecular Chemistry, 2009, 7, 4358.	1.5	44
39	Theoretical Characterization of the Dynamical Behavior and Transport Properties of Î±,Î³-Peptide Nanotubes in Solution. Journal of the American Chemical Society, 2009, 131, 15678-15686.	6.6	41
40	The Smallest Î±,Î³-Peptide Nanotubulet Segments:â€‰ Cyclic Î±,Î³-Tetrapeptide Dimers. Organic Letters, 2005, 7, 4681-4684.	2.4	37
41	Anion Recognition and Induced Selfâ€Assembly of an Î±,Î³â€Cyclic Peptide To Form Spherical Clusters. Angewandte Chemie - International Edition, 2016, 55, 4504-4508.	7.2	34
42	Novel synthesis of platinum complexes and their intracellular delivery to tumor cells by means of magnetic nanoparticles. Nanoscale, 2019, 11, 23482-23497.	2.8	33
43	Membrane-Targeted Self-Assembling Cyclic Peptide Nanotubes. Current Topics in Medicinal Chemistry, 2015, 14, 2647-2661.	1.0	33
44	Interaction and Dimerization Energies in Methyl-Blocked Î±,Î³-Peptide Nanotube Segments. Journal of Physical Chemistry B, 2010, 114, 4973-4983.	1.2	32
45	Liquid crystal organization of self-assembling cyclic peptides. Chemical Communications, 2014, 50, 688-690.	2.2	32
46	Spatially Controlled Supramolecular Polymerization of Peptide Nanotubes by Microfluidics. Angewandte Chemie - International Edition, 2020, 59, 6902-6908.	7.2	32
47	RCM for the Construction of Novel Steroid-like Polycyclic Systems. 1. Studies on the Synthesis of a PreD3-D3Transition State Analogueâ€¡. Journal of Organic Chemistry, 2005, 70, 8281-8290.	1.7	31
48	Self-assembling Î±,Î³-cyclic peptides that generate cavities with tunable properties. Chemical Science, 2016, 7, 183-187.	3.7	31
49	New Synthetic Strategies to Vitamin D Analogues Modified at the Side Chain and D Ring. Synthesis of 1Î±,25-Dihydroxy-16-ene-vitamin D3and C-20 Analogues1. Journal of Organic Chemistry, 1999, 64, 3196-3206.	1.7	30
50	Synthesis of Ï‰-(Hetero)arylalkynylated Î±-Amino Acid by Sonogashira-Type Reactions in Aqueous Media. Journal of Organic Chemistry, 2006, 71, 7870-7873.	1.7	30
51	Toward an Efficient Synthesis of Taxane Analogs by Dienyne Ring-Closing Metathesis. Organic Letters, 2008, 10, 3789-3792.	2.4	28
52	Different-Length Hydrazone Activated Polymers for Plasmid DNA Condensation and Cellular Transfection. Biomacromolecules, 2018, 19, 2638-2649.	2.6	28
53	Zur Architektur von Peptiden: Bestimmung der relativen StabilitÃt von parallelen und antiparallelen Î²â€FaltblÃttern. Angewandte Chemie, 1995, 107, 79-81.	1.6	27
54	Dienyne Ring-Closing Metathesis Approach for the Construction of Taxosteroids. Chemistry - A European Journal, 2007, 13, 5135-5150.	1.7	27

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55	Regioisomeric Control Induced by DABCO Coordination to Rotatable Selfâ€Assembled Bisâ€•and Tetraporphyrin Î±,Î³â€Cyclic Octapeptide Dimers. Chemistry - A European Journal, 2011, 17, 1220-1229.	1.7	27
56	Self-assembling Venturi-like peptide nanotubes. Nanoscale, 2017, 9, 748-753.	2.8	27
57	A carbonyl 1,1-zwitterion synthon for ester and macrolide synthesis. Journal of the American Chemical Society, 1991, 113, 1044-1046.	6.6	26
58	New self-assembling peptide nanotubes of large diameter using Î´-amino acids. Chemical Science, 2018, 9, 8228-8233.	3.7	26
59	(2,3)-Wittig sigmatropic rearrangements in steroid synthesis. New stereocontrolled approach to steroidal side chains at C-20. Tetrahedron Letters, 1985, 26, 4959-4960.	0.7	25
60	Studies on the opening of dioxanone and acetal templates and application to the synthesis of 1.alpha.,25-dihydroxyvitamin D2. Journal of Organic Chemistry, 1993, 58, 124-131.	1.7	24
61	Self-assembling properties of all Î³-cyclic peptides containing sugar amino acid residues. Organic and Biomolecular Chemistry, 2012, 10, 8762.	1.5	23
62	Regioselective joining of prenyl units. A simple strategy for geometry control in Pd catalyzed allylic alkylations. Tetrahedron Letters, 1991, 32, 2193-2196.	0.7	21
63	Highly Efficient and Directional Homoâ€•and Heterodimeric Energy Transfer Materials Based on Fluorescently Derivatized Î±,Î³â€Cyclic Octapeptides. Chemistry - an Asian Journal, 2011, 6, 110-121.	1.7	21
64	Toward an Analogue of the Transition State of PreD3â^'D3Isomerization: Stereoselective Synthesis of Linearly Fused 6-8-6 Carbocyclic Systems1. Organic Letters, 2002, 4, 1651-1654.	2.4	20
65	Design of Stable Î²â€Sheetâ€Based Cyclic Peptide Assemblies Assisted by Metal Coordination: Selective Homoâ€• and Heterodimer Formation. Chemistry - A European Journal, 2013, 19, 4826-4834.	1.7	20
66	Design and synthesis of 1Î±,25-dihydroxyvitamin D3 analogues with fixed torsion angle C(16-17-20-22). Tetrahedron Letters, 1998, 39, 4725-4728.	0.7	19
67	Toward the rational design of molecular rotors ion sensors based on Î±,Î³-cyclic peptide dimers. Amino Acids, 2011, 41, 621-628.	1.2	19
68	Synthesis of 2â€Eneâ€•1,4â€•diols by a New Cascadeâ€•Opening of 1,3â€•Diepoxides: Towards an Efficient Synthesis of Dihydroxytaxoid Derivatives. Chemistry - A European Journal, 2009, 15, 4785-4787.	1.7	18
69	In Situ Functionalized Polymers for siRNA Delivery. Angewandte Chemie, 2016, 128, 7618-7621.	1.6	18
70	Supramolecular Recognition and Selective Protein Uptake by Peptide Hybrids. Chemistry - A European Journal, 2018, 24, 10689-10698.	1.7	17
71	New Î±,Î³â€•cyclic peptidesâ€•nanotube molecular caps using Î±,Î±â€•dialkylated Î±â€•amino acids. Journal of Peptide Science, 2008, 14, 241-249.	0.8	16
72	cis-Platinum Complex Encapsulated in Self-Assembling Cyclic Peptide Dimers. Organic Letters, 2017, 19, 2560-2563.	2.4	16

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73	Membrane targeting antimicrobial cyclic peptide nanotubes â€“ an experimental and computational study. Colloids and Surfaces B: Biointerfaces, 2020, 196, 111349.	2.5	16
74	Synthesis of vitamin D analogues with a 2-hydroxy-3-deoxy ring A. Tetrahedron Letters, 2000, 41, 5861-5864.	0.7	15
75	Selfâ€Sorting of Cyclic Peptide Homodimers into a Heterodimeric Assembly Featuring an Efficient Photoinduced Intramolecular Electronâ€Transfer Process. Chemistry - A European Journal, 2014, 20, 3427-3438.	1.7	15
76	Singleâ€Nucleotideâ€Resolution DNA Differentiation by Pattern Generation in Lipid Bilayer Membranes. Small, 2014, 10, 3613-3618.	5.2	15
77	Feasibility of associative mechanism in enyne metathesis catalyzed by grubbs complexes. Dalton Transactions, 2007, , 2925-2934.	1.6	13
78	Molecular Pom Poms from Selfâ€Assembling Î±,Î³â€Cyclic Peptides. Chemistry - A European Journal, 2014, 20, 10260-10265.	1.7	13
79	Effect of Organochloride Guest Molecules on the Stability of Homo/Hetero Self-Assembled Î±,Î³-Cyclic Peptide Structures: A Computational Study Toward the Control of Nanotube Length. Journal of Physical Chemistry C, 2013, 117, 10143-10162.	1.5	12
80	Tight Xenon Confinement in a Crystalline Sandwichâ€like Hydrogenâ€Bonded Dimeric Capsule of a Cyclic Peptide. Angewandte Chemie - International Edition, 2019, 58, 14472-14476.	7.2	12
81	Effect of Water Models on Transmembrane Self-Assembled Cyclic Peptide Nanotubes. ACS Nano, 2021, 15, 7053-7064.	7.3	12
82	Parallel Versus Antiparallel Î²â€Sheet Structure in Cyclic Peptide Hybrids Containing Î³â€•or Î´â€Cyclic Amino Acids. Chemistry - A European Journal, 2020, 26, 5846-5858.	1.7	12
83	Competitive double-switched self-assembled cyclic peptide nanotubes: a dual internal and external control. Physical Chemistry Chemical Physics, 2019, 21, 20750-20756.	1.3	11
84	Versatile symport transporters based on cyclic peptide dimers. Chemical Communications, 2020, 56, 46-49.	2.2	11
85	Spatially Controlled Supramolecular Polymerization of Peptide Nanotubes by Microfluidics. Angewandte Chemie, 2020, 132, 6969-6975.	1.6	11
86	Stereoselective synthesis of 25-hydroxyvitamin D2 side chain via the acetal template route. Tetrahedron Letters, 1987, 28, 4589-4590.	0.7	10
87	Double Orthogonal Click Reactions for the Development of Antimicrobial Peptide Nanotubes. Chemistry - A European Journal, 2021, 27, 3029-3038.	1.7	10
88	An Efficient Approach to the Unnatural Chirality of Steroid Side Chains at C-20. Synthetic Communications, 1987, 17, 251-256.	1.1	9
89	Bioinspired Artificial Sodium and Potassium Ion Channels. Metal Ions in Life Sciences, 2016, 16, 485-556.	2.8	9
90	Towards taxane analogues synthesis by dienyne ring closing metathesis. Organic Chemistry Frontiers, 2016, 3, 1331-1336.	2.3	8

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91	Induced Î±,Î³â€cyclic peptide rotodimer recognition by nucleobase scaffolds. Peptide Science, 2020, 112, e24132.	1.0	8
92	Molecular Plumbing to Bend Selfâ€Assembling Peptide Nanotubes. Angewandte Chemie - International Edition, 2021, 60, 18838-18844.	7.2	8
93	Design, Synthesis, and Structural Analysis of Turn Modified cyclo-(Î±Î²³Î±Î²²Î±)₂ Peptide Derivatives toward Crystalline Hexagon-Shaped Cationic Nanochannel Assemblies. Crystal Growth and Design, 2013, 13, 4355-4367.	1.4	6
94	Self-assembling Cyclic a,g-Tetrapeptides. Heterocycles, 2006, 67, 575.	0.4	6
95	1D alignment of proteins and other nanoparticles by using reversible covalent bonds on cyclic peptide nanotubes. Organic Chemistry Frontiers, 2022, 9, 1226-1233.	2.3	6
96	[2,3]-Wittig Sigmatropic Rearrangement of Steroidal 16Î²-Propargyl Ethers for the Synthesis of 25-Hydroxyvitamin D Side Chain Analogues. Synthetic Communications, 1991, 21, 2033-2038.	1.1	5
97	Dienyne RCM/Dielsâ€“Alder approach for the construction of novel steroid-like polycyclic systems. Tetrahedron Letters, 2006, 47, 6587-6589.	0.7	5
98	Three-Dimensional Water Channel Embedded in an Î±,Î³-Cyclic Octapeptide-Derived Organic Porous Material. Crystal Growth and Design, 2011, 11, 3351-3357.	1.4	5
99	Anion Recognition and Induced Selfâ€Assembly of an Î±,Î³â€Cyclic Peptide To Form Spherical Clusters. Angewandte Chemie, 2016, 128, 4580-4584.	1.6	4
100	One step construction of a taxane-like skeleton by a diendiyne metathesis cyclization reaction. Organic Chemistry Frontiers, 2017, 4, 460-466.	2.3	4
101	Macromolecular assembly and membrane activity of antimicrobial D,L-Î±-Cyclic peptides. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112086.	2.5	4
102	Transmembrane Self-Assembled Cyclic Peptide Nanotubes Based on Î±â€Residues and Cyclic Î´â€Amino Acids: A Computational Study. Frontiers in Chemistry, 2021, 9, 704160.	1.8	3
103	Tight Xenon Confinement in a Crystalline Sandwichâ€like Hydrogenâ€Bonded Dimeric Capsule of a Cyclic Peptide. Angewandte Chemie, 2019, 131, 14614-14618.	1.6	2
104	Partition of antimicrobial D-L-Î±-cyclic peptides into bacterial model membranes. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183729.	1.4	2
105	Cyclization and Self-Assembly of. Methods in Molecular Biology, 2022, 2371, 449-466.	0.4	1
106	Self-Assembling Peptide Nanotubes. , 1999, , 61-66.		1
107	Biomembranes: Single-Nucleotide-Resolution DNA Differentiation by Pattern Generation in Lipid Bilayer Membranes (Small 18/2014). Small, 2014, 10, 3612-3612.	5.2	0
108	RÃ¼cktitelbild: In Situ Functionalized Polymers for siRNA Delivery (Angew. Chem. 26/2016). Angewandte Chemie, 2016, 128, 7676-7676.	1.6	0

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109	Molecular Plumbing to Bend Selfâ€Assembling Peptide Nanotubes. Angewandte Chemie, 2021, 133, 18986-18992.	1.6	0
110	Hierarchical Self-Organization from Cyclic Peptide. , 0, , .		0