

# Roberto J Brea

## List of Publications by Year in descending order

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31  
papers

1,280  
citations

331670

21  
h-index

434195

31  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1393  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards functional bionanomaterials based on self-assembling cyclic peptidenanotubes. <i>Chemical Society Reviews</i> , 2010, 39, 1448-1456.	38.1	246
2	A minimal biochemical route towards de novo formation of synthetic phospholipid membranes. <i>Nature Communications</i> , 2019, 10, 300.	12.8	82
3	$\beta$ , $\gamma$ -Peptide Nanotube Templating of One-Dimensional Parallel Fullerene Arrangements. <i>Journal of the American Chemical Society</i> , 2009, 131, 11335-11337.	13.7	81
4	Methyl-Blocked Dimeric $\beta$ , $\gamma$ -Peptide Nanotube Segments: Formation of a Peptide Heterodimer through Backbone-Backbone Interactions. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5710-5713.	13.8	69
5	Large-diameter self-assembled dimers of $\beta$ , $\gamma$ -cyclic peptides, with the nanotubular solid-state structure of cyclo-[(l-Leu-d-MeN- $\beta$ -Acp) <sub>4</sub> ]-4CHCl <sub>2</sub> COOH. <i>Chemical Communications</i> , 2007, , 3267.	4.1	69
6	Controlling Multiple Fluorescent Signal Output in Cyclic Peptide-Based Supramolecular Systems. <i>Journal of the American Chemical Society</i> , 2007, 129, 1653-1657.	13.7	65
7	In Situ Vesicle Formation by Native Chemical Ligation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14102-14105.	13.8	64
8	Electron transfer in Me-blocked heterodimeric $\beta$ , $\gamma$ -peptide nanotubular donor-acceptor hybrids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5291-5294.	7.1	56
9	Lipids: chemical tools for their synthesis, modification, and analysis. <i>Chemical Society Reviews</i> , 2020, 49, 4602-4614.	38.1	54
10	Nonenzymatic biomimetic remodeling of phospholipids in synthetic liposomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8589-8594.	7.1	45
11	<i>De novo</i> vesicle formation and growth: an integrative approach to artificial cells. <i>Chemical Science</i> , 2017, 8, 7912-7922.	7.4	44
12	Towards Self-Assembled Hybrid Artificial Cells: Novel Bottom-Up Approaches to Functional Synthetic Membranes. <i>Chemistry - A European Journal</i> , 2015, 21, 12564-12570.	3.3	40
13	Biomimetic Generation and Remodeling of Phospholipid Membranes by Dynamic Imine Chemistry. <i>Journal of the American Chemical Society</i> , 2018, 140, 8388-8391.	13.7	40
14	The Smallest $\beta$ , $\gamma$ -Peptide Nanotubulet Segments: Cyclic $\beta$ , $\gamma$ -Tetrapeptide Dimers. <i>Organic Letters</i> , 2005, 7, 4681-4684.	4.6	37
15	In Situ Reconstitution of the Adenosine A <sub>2A</sub> Receptor in Spontaneously Formed Synthetic Liposomes. <i>Journal of the American Chemical Society</i> , 2017, 139, 3607-3610.	13.7	34
16	Synthesis of $\omega$ -(Hetero)arylalkynylated $\beta$ -Amino Acid by Sonogashira-Type Reactions in Aqueous Media. <i>Journal of Organic Chemistry</i> , 2006, 71, 7870-7873.	3.2	30
17	Spontaneous Reconstitution of Functional Transmembrane Proteins During Bioorthogonal Phospholipid Membrane Synthesis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12738-12742.	13.8	30
18	Regioisomeric Control Induced by DABCO Coordination to Rotatable Self-Assembled Bis- and Tetraporphyrin $\beta$ , $\gamma$ -Cyclic Octapeptide Dimers. <i>Chemistry - A European Journal</i> , 2011, 17, 1220-1229.	3.3	27

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19	Self-assembling properties of all $\beta$ -cyclic peptides containing sugar amino acid residues. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 8762.	2.8	23
20	Highly Stable Artificial Cells from Galactopyranose-Derived Single-Chain Amphiphiles. <i>Journal of the American Chemical Society</i> , 2018, 140, 17356-17360.	13.7	23
21	Highly Efficient and Directional Homo- and Heterodimeric Energy Transfer Materials Based on Fluorescently Derivatized $\beta$ -Cyclic Octapeptides. <i>Chemistry - an Asian Journal</i> , 2011, 6, 110-121.	3.3	21
22	Single-Chain $\beta$ -Glycopyranosylamides of Unsaturated Fatty Acids: Self-Assembly Properties and Applications to Artificial Cell Development. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3711-3720.	2.6	20
23	Amphiphile-Mediated Depalmitoylation of Proteins in Living Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 17374-17378.	13.7	14
24	Chemoenzymatic Generation of Phospholipid Membranes Mediated by Type I Fatty Acid Synthase. <i>Journal of the American Chemical Society</i> , 2021, 143, 8533-8537.	13.7	13
25	In Situ Lipid Membrane Formation Triggered by Intramolecular Photoinduced Electron Transfer. <i>Langmuir</i> , 2018, 34, 750-755.	3.5	10
26	Traceless native chemical ligation of lipid-modified peptide surfactants by mixed micelle formation. <i>Nature Communications</i> , 2020, 11, 2793.	12.8	10
27	Expression of Fatty Acyl-CoA Ligase Drives One-Pot <i>De Novo</i> Synthesis of Membrane-Bound Vesicles in a Cell-Free Transcription-Translation System. <i>Journal of the American Chemical Society</i> , 2021, 143, 11235-11242.	13.7	10
28	Rapid and Sequential Dual Oxime Ligation Enables <i>De Novo</i> Formation of Functional Synthetic Membranes from Water-Soluble Precursors. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	4
29	Temperature-Dependent Reversible Morphological Transformations in N-Oleoyl $\beta$ -d-Galactopyranosylamine. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5426-5433.	2.6	1
30	Supramolecular Assembly and Mesophase Behavior of Glycopyranose-Derived Single-Chain Amphiphiles. <i>ACS Symposium Series</i> , 2020, , 15-30.	0.5	0
31	Rapid and Sequential Dual Oxime Ligation Enables <i>De Novo</i> Formation of Functional Synthetic Membranes from Water-Soluble Precursors. <i>Angewandte Chemie</i> , 0, , .	2.0	0