

# Beatriu Escuder

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93  
papers

5,533  
citations

38  
h-index

73  
g-index

100  
ext. papers

5,837  
ext. citations

5.5  
avg. IF

5.74  
L-index

#	Paper	IF	Citations
93	Catalytic Supramolecular Gels <b>2022</b> , 81-92		1
92	Two-Component Peptidic Molecular Gels for Topical Drug Delivery of Naproxen. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 935-944	4.1	5
91	A minimalistic catalytically-active cell mimetic made of a supra-molecular hydrogel encapsulated into a polymersome. <i>Chemical Communications</i> , <b>2020</b> , 56, 14487-14490	5.8	5
90	Self-assembled multivalent (SAMul) ligand systems with enhanced stability in the presence of human serum. <i>Biomaterials Science</i> , <b>2019</b> , 7, 3812-3820	7.4	3
89	Morphology Diversity of L-Phenylalanine-Based Short Peptide Supramolecular Aggregates and Hydrogels. <i>ChemNanoMat</i> , <b>2018</b> , 4, 796-800	3.5	17
88	Transient Catalytic Activity of a Triazole-based Gelator Regulated by Molecular Gel Assembly/Disassembly. <i>ChemistrySelect</i> , <b>2017</b> , 2, 854-862	1.8	8
87	Frontispiece: Peptide-Based Molecular Hydrogels as Supramolecular Protein Mimics. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23,	4.8	1
86	Competition versus Cooperation in Catalytic Hydrogelators for anti-Selective Mannich Reaction. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 9946-9951	4.8	15
85	Self-assembled hybrid hydrogels based on an amphipathic low molecular weight peptide derivative and a water-soluble poly(para-phenylene vinylene). <i>RSC Advances</i> , <b>2017</b> , 7, 9562-9566	3.7	8
84	Synthesis of a Double-Network Supramolecular Hydrogel by Having One Network Catalyse the Formation of the Second. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 2018-2021	4.8	21
83	Transcription of Nanofibrous Cerium Phosphate Using a pH-Sensitive Lipopeptide Hydrogel Template. <i>Gels</i> , <b>2017</b> , 3,	4.2	6
82	Peptide-Based Molecular Hydrogels as Supramolecular Protein Mimics. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 981-993	4.8	121
81	Metastable hydrogels from aromatic dipeptides. <i>Chemical Communications</i> , <b>2016</b> , 52, 13889-13892	5.8	41
80	Rational design of a supramolecular gel based on a Zn(II)Balophen bis-dipeptide derivative. <i>RSC Advances</i> , <b>2016</b> , 6, 57306-57309	3.7	17
79	Tandem Catalysis of an Aldol-'Click' Reaction System within a Molecular Hydrogel. <i>Molecules</i> , <b>2016</b> , 21,	4.8	4
78	Emergent Catalytic Behavior of Self-Assembled Low Molecular Weight Peptide-Based Aggregates and Hydrogels. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 6687-94	4.8	86
77	Triazolyl-Based Molecular Gels as Ligands for Autocatalytic 'Click' Reactions. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 8676-84	4.8	20

76	Tandem reactions in self-sorted catalytic molecular hydrogels. <i>Chemical Science</i> , <b>2016</b> , 7, 5568-5572	9.4	65
75	Insight into the esterase like activity demonstrated by an imidazole appended self-assembling hydrogelator. <i>Chemical Communications</i> , <b>2015</b> , 51, 13213-6	5.8	54
74	Thermodynamic and Kinetic Study of the Fibrillization of a Family of Tetrapeptides and Its Application to Self-Sorting. What Takes So Long?. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3358-3365	9.6	31
73	Structural insight into the aggregation of L-prolyl dipeptides and its effect on organocatalytic performance. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 592-600	3.9	9
72	Selective Interaction of Dopamine with the Self-Assembled Fibrillar Network of a Molecular Hydrogel Revealed by STD-NMR. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 13925-9	4.8	7
71	Towards Supramolecular Catalysis with Small Self-assembled Peptides. <i>Israel Journal of Chemistry</i> , <b>2015</b> , 55, 711-723	3.4	36
70	Study of the effect of polymorphism on the self-assembly and catalytic performance of an L-proline based molecular hydrogelator. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 3785-3791	3.6	24
69	Dynamic Peptide Library for the Discovery of Charge Transfer Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25946-54	9.5	35
68	Diamine acylation with amino acid derivatives: an example of proximity effect in organic reactivity induced by supramolecular aggregation. <i>Tetrahedron Letters</i> , <b>2015</b> , 56, 1132-1134	2	2
67	Co-assembly of tetrapeptides into complex pH-responsive molecular hydrogel networks. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 6192-6197	7.3	27
66	Tuning chelation by the surfactant-like peptide A6H using predetermined pH values. <i>Biomacromolecules</i> , <b>2014</b> , 15, 591-8	6.9	20
65	Mechanistic Insight into the Lability of the Benzyloxycarbonyl (Z) Group in N-Protected Peptides under Mild Basic Conditions. <i>European Journal of Organic Chemistry</i> , <b>2014</b> , 2014, 3372-3378	3.2	
64	Tetrapeptidic molecular hydrogels: self-assembly and co-aggregation with amyloid fragment A $\beta$ -40. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 1023-31	4.8	28
63	Freezing capture of polymorphic aggregates of bolaamphiphilic (L)-valine-based molecular hydrogelators. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 5762-7	4.8	12
62	Rational design of heat-set and specific-ion-responsive supramolecular hydrogels based on the Hofmeister effect. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 14465-72	4.8	41
61	Substrate selective catalytic molecular hydrogels: the role of the hydrophobic effect. <i>Chemical Communications</i> , <b>2013</b> , 49, 10608-10	5.8	51
60	Self-assembly of a peptide amphiphile: transition from nanotape fibrils to micelles. <i>Soft Matter</i> , <b>2013</b> , 9, 3558	3.6	64
59	In situ synthesis-gelation at room temperature vs. heating-cooling procedure. Fine tuning of molecular gels derived from succinic acid and L-valine. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 412, 65-71	9.3	10

58	Control of molecular gelation by chemical stimuli. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 7086-98	58.5	372
57	Interplay of molecular hydrogelators and SDS affords responsive soft matter systems with tunable properties. <i>Langmuir</i> , <b>2013</b> , 29, 9544-50	4	9
56	pH-Tunable hydrogelators for water purification: structural optimisation and evaluation. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 2692-9	4.8	64
55	Vibrational Circular Dichroism Shows Reversible Helical Handedness Switching in Peptidomimetic L-Valine Fibrils. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 2120-4	6.4	19
54	Self-assembly studies of a chiral bisurea-based superhydrogelator. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 14725-31	4.8	37
53	Anion-responsive diguanidinium-based chiral organogelators. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 13038-47	4.8	16
52	Structural and morphological studies of the dipeptide based L-Pro-L-Val organocatalytic gels and their rheological behaviour. <i>Soft Matter</i> , <b>2012</b> , 8, 8865	3.6	21
51	Molecular hydrogels from bolaform amino acid derivatives: a structure-properties study based on the thermodynamics of gel solubilization. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 4063-72	4.8	73
50	Sodium and pH responsive hydrogel formation by the supramolecular system calix[4]pyrrole derivative/tetramethylammonium cation. <i>Chemical Communications</i> , <b>2011</b> , 47, 2017-9	5.8	70
49	Influence of end-capping on the self-assembly of model amyloid peptide fragments. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 2107-16	3.4	46
48	Aldehyde responsive supramolecular hydrogels: towards biomarker-specific delivery systems. <i>Chemical Communications</i> , <b>2011</b> , 47, 4706-8	5.8	33
47	Influence of the solvent on the self-assembly of a modified amyloid beta peptide fragment. II. NMR and computer simulation investigation. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 940-51	3.4	68
46	Selective and highly efficient dye scavenging by a pH-responsive molecular hydrogelator. <i>Chemical Communications</i> , <b>2010</b> , 46, 7960-2	5.8	91
45	Selective catechol-triggered supramolecular gel disassembly. <i>Chemical Communications</i> , <b>2010</b> , 46, 7996-8	5.8	38
44	Supramolecular gels as active media for organic reactions and catalysis. <i>New Journal of Chemistry</i> , <b>2010</b> , 34, 1044	3.6	231
43	HRMAS 1H NMR as a tool for the study of supramolecular gels. <i>Soft Matter</i> , <b>2010</b> , 6, 1875	3.6	29
42	Supramolecular hydrogels for enzymatically triggered self-immolative drug delivery. <i>Tetrahedron</i> , <b>2010</b> , 66, 2614-2618	2.4	41
41	Supramolecular catalysis with extended aggregates and gels: inversion of stereoselectivity caused by self-assembly. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 8480-6	4.8	71

40	Self-assembly of two-component gels: stoichiometric control and component selection. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 372-9	4.8	90
39	Supramolecular gel formation and self-correction induced by aggregation-driven conformational changes. <i>Chemical Communications</i> , <b>2009</b> , 209-11	5.8	34
38	Switchable performance of an L-proline-derived basic catalyst controlled by supramolecular gelation. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 11478-84	16.4	155
37	A supramolecular hydrogel as a reusable heterogeneous catalyst for the direct aldol reaction. <i>Chemical Communications</i> , <b>2009</b> , 7303-5	5.8	143
36	Solvent-free construction of self-assembled 1D nanostructures from low-molecular-weight organogelators: sublimation vs. gelation. <i>Soft Matter</i> , <b>2009</b> , 5, 3727	3.6	15
35	Remarkable increase in basicity associated with supramolecular gelation. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 3091	3.9	51
34	Solid-State Polymorphic Transition and Solvent-Free Self-Assembly in the Growth of Organic Crystalline Microfibers. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 11-13	3.5	17
33	Low-molecular-weight gelators: elucidating the principles of gelation based on gelator solubility and a cooperative self-assembly model. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 9113-21	16.4	328
32	Molecular recognition through divalent interactions with a self-assembled fibrillar network of a supramolecular organogel. <i>Organic and Biomolecular Chemistry</i> , <b>2008</b> , 6, 4378-83	3.9	28
31	Biomimetic Self-Assembly of Tetrapeptides into Fibrillar Networks and Organogels. <i>European Journal of Organic Chemistry</i> , <b>2008</b> , 2008, 4580-4590	3.2	21
30	High-tech applications of self-assembling supramolecular nanostructured gel-phase materials: from regenerative medicine to electronic devices. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 8002-18	16.4	1079
29	High-Tech-Anwendungen von supramolekularen nanostrukturierten Gelmaterialien Von der regenerativen Medizin bis hin zu elektronischen Bauelementen. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 8122-8133	3.6	185
28	Organic reactions in supramolecular gel media: reaction driven release of reagents in a macrocyclisation reaction. <i>Tetrahedron</i> , <b>2007</b> , 63, 7321-7325	2.4	22
27	Morphology templating of nanofibrous silica through pH-sensitive gels: in situ and post-diffusion strategies. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 1817-1824		30
26	Silk-inspired low-molecular-weight organogelator. <i>Langmuir</i> , <b>2006</b> , 22, 7793-7	4	34
25	Insight on the NMR study of supramolecular gels and its application to monitor molecular recognition on self-assembled fibers. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 7747-52	4.2	164
24	Pyridine-functionalised ambidextrous gelators: towards catalytic gels. <i>Chemical Communications</i> , <b>2005</b> , 5796-8	5.8	94
23	Organogel formation by coaggregation of adaptable amidocarbamates and their tetraamide analogues. <i>Langmuir</i> , <b>2005</b> , 21, 6776-87	4	79

22	Reactive organogels: self-assembled support for functional materials. <i>Organic Letters</i> , <b>2005</b> , 7, 4791-4	6.2	56
21	Understanding the Expression of Molecular Chirality in the Self-Assembly of a Peptidomimetic Organogelator. <i>European Journal of Organic Chemistry</i> , <b>2005</b> , 2005, 481-485	3.2	50
20	Enantioselective binding of amino acids and amino alcohols by self-assembled chiral basket-shaped receptors. <i>Tetrahedron</i> , <b>2004</b> , 60, 291-300	2.4	45
19	Self-assembly of small peptidomimetic cyclophanes. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 3879-90	4.8	69
18	Polyaza[n](1,4)naphthalenophanes and polyaza[n](9,10)anthracenophanes. <i>Tetrahedron</i> , <b>2002</b> , 58, 2839-2846	2.4	14
17	Tetraaza-2,2'-biphenylophanes: larger is not always more flexible. The role of intramolecular H-bonding in polyzamacrocycles. <i>Tetrahedron Letters</i> , <b>2002</b> , 43, 1817-1819	2	11
16	Antioxidant capacity of abietanes from <i>Sphacele salviae</i> . <i>Natural Product Research</i> , <b>2002</b> , 16, 277-81		12
15	Minimalist peptidomimetic cyclophanes as strong organogelators. <i>Chemical Communications</i> , <b>2002</b> , 738-9	3.8	69
14	Aggregation behaviour and binding properties of an l-lysine appended glycoluril receptor. <i>Tetrahedron Letters</i> , <b>2001</b> , 42, 2751-2753	2	6
13	CO <sub>2</sub> fixation and activation by metal complexes of small polyazacyclophanes. <i>Journal of Physical Organic Chemistry</i> , <b>2001</b> , 14, 495-500	2.1	13
12	Synthesis, aggregation, and binding behavior of synthetic amphiphilic receptors. <i>Journal of Organic Chemistry</i> , <b>2001</b> , 66, 1538-47	4.2	18
11	New strategies in the development of polynuclear complexes. Crystal structure of the tetranuclear copper(II) complex [Cu <sub>4</sub> (L1) <sub>2</sub> (OH) <sub>4</sub> Cl <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> ] <sub>2</sub> (H <sub>3</sub> O <sub>2</sub> )(ClO <sub>4</sub> ) <sub>2</sub> Cl <sub>2</sub> H <sub>2</sub> O (L1=2,5,8,11-tetraaza[12](1,4)naphthalenecyclophane). <i>Inorganica Chimica Acta</i> , <b>2000</b> , 300-302, 970-977	2.7	5
10	Thermodynamic and fluorescence emission studies on chemosensors containing anthracene fluorophores. Crystal structure of {[CuL1Cl]Cl} <sub>2</sub> ·2H <sub>2</sub> O [L1 = N-(3-aminopropyl)-N'-3-(anthracen-9-ylmethyl)aminopropylethane-1,2-diamine]. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1999</b> , 915-922		28
9	Thermodynamics of Phosphate and Pyrophosphate Anions Binding by Polyammonium Receptors. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 6807-6815	16.4	119
8	Synthesis and Protonation Behavior of 26-Membered Oxaaza and Polyaza Macrocycles Containing Two Heteroaromatic Units of 3,5-Disubstituted Pyrazole or 1-Benzylpyrazole. A Potentiometric and <sup>1</sup> H and <sup>13</sup> C NMR Study. <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 6135-6146	4.2	46
7	One-pot synthesis of polyaza[n]naphthalenophanes and polyaza[n]anthracenophanes. <i>Tetrahedron Letters</i> , <b>1998</b> , 39, 3799-3802	2	12
6	Guest-Induced Selective Functionalization of Polyaza[n]paracyclophanes. <i>Journal of Organic Chemistry</i> , <b>1998</b> , 63, 1810-1818	4.2	17
5	Polymer-Grafted Ti-TADDOL Complexes. Preparation and Use as Catalysts in Diels-Alder Reactions. <i>Journal of Organic Chemistry</i> , <b>1997</b> , 62, 3126-3134	4.2	70

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| 4 | A remarkable selectivity in the N-functionalization of polyaza[n]paracyclophanes. Synthesis of N-(4-picolyl)-substituted 2,6,9,13-Tetraaza[14]paracyclophanes. <i>Tetrahedron</i> , <b>1997</b> , 53, 16169-16176 | 2.4 | 7  |
| 3 | Selective monofunctionalization of polyaza[n]paracyclophanes. <i>Tetrahedron Letters</i> , <b>1994</b> , 35, 9075-9078  |     | 14 |
| 2 | Protonation tendencies of azaparacyclophanes. A thermodynamic and NMR study. <i>Journal of the Chemical Society Perkin Transactions II</i> , <b>1994</b> , 1253-1259  |     | 38 |
| 1 | N-Tosylated Polyaza[n](1,4)naphthalenophanes. Synthesis and Conformational Studies. <i>Journal of Organic Chemistry</i> , <b>1994</b> , 59, 1067-1071   | 4.2 | 21 |