Beatriu Escuder

List of Publications by Citations

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	High-tech applications of self-assembling supramolecular nanostructured gel-phase materials: from regenerative medicine to electronic devices. *Angewandte Chemie - International Edition*, **2008**, 47, 8002-18	16.4	1079
92	Control of molecular gelation by chemical stimuli. *Chemical Society Reviews*, **2013**, 42, 7086-98	58.5	372
91	Low-molecular-weight gelators: elucidating the principles of gelation based on gelator solubility and a cooperative self-assembly model. *Journal of the American Chemical Society*, **2008**, 130, 9113-21	16.4	328
90	Supramolecular gels as active media for organic reactions and catalysis. *New Journal of Chemistry*, **2010**, 34, 1044	3.6	231
89	High-Tech-Anwendungen von supramolekularen nanostrukturierten Gelmaterialien von der regenerativen Medizin bis hin zu elektronischen Bauelementen. *Angewandte Chemie*, **2008**, 120, 8122-8139	3.6	185
88	Insight on the NMR study of supramolecular gels and its application to monitor molecular recognition on self-assembled fibers. *Journal of Organic Chemistry*, **2006**, 71, 7747-52	4.2	164
87	Switchable performance of an L-proline-derived basic catalyst controlled by supramolecular gelation. *Journal of the American Chemical Society*, **2009**, 131, 11478-84	16.4	155
86	A supramolecular hydrogel as a reusable heterogeneous catalyst for the direct aldol reaction. *Chemical Communications*, **2009**, 7303-5	5.8	143
85	Peptide-Based Molecular Hydrogels as Supramolecular Protein Mimics. *Chemistry - A European Journal*, **2017**, 23, 981-993	4.8	121
84	Thermodynamics of Phosphate and Pyrophosphate Anions Binding by Polyammonium Receptors. *Journal of the American Chemical Society*, **1999**, 121, 6807-6815	16.4	119
83	Pyridine-functionalised ambidextrous gelators: towards catalytic gels. *Chemical Communications*, **2005**, 5796-8	5.8	94
82	Selective and highly efficient dye scavenging by a pH-responsive molecular hydrogelator. *Chemical Communications*, **2010**, 46, 7960-2	5.8	91
81	Self-assembly of two-component gels: stoichiometric control and component selection. *Chemistry - A European Journal*, **2009**, 15, 372-9	4.8	90
80	Emergent Catalytic Behavior of Self-Assembled Low Molecular Weight Peptide-Based Aggregates and Hydrogels. *Chemistry - A European Journal*, **2016**, 22, 6687-94	4.8	86
79	Organogel formation by coaggregation of adaptable amidocarbamates and their tetraamide analogues. *Langmuir*, **2005**, 21, 6776-87	4	79
78	Molecular hydrogels from bolaform amino acid derivatives: a structure-properties study based on the thermodynamics of gel solubilization. *Chemistry - A European Journal*, **2012**, 18, 4063-72	4.8	73
77	Supramolecular catalysis with extended aggregates and gels: inversion of stereoselectivity caused by self-assembly. *Chemistry - A European Journal*, **2010**, 16, 8480-6	4.8	71

76	Sodium and pH responsive hydrogel formation by the supramolecular system calix[4]pyrrole derivative/tetramethylammonium cation. *Chemical Communications*, **2011**, 47, 2017-9	5.8	70
75	Polymer-Grafted Ti-TADDOL Complexes. Preparation and Use as Catalysts in Diels-Alder Reactions. *Journal of Organic Chemistry*, **1997**, 62, 3126-3134	4.2	70
74	Self-assembly of small peptidomimetic cyclophanes. *Chemistry - A European Journal*, **2004**, 10, 3879-90	4.8	69
73	Minimalist peptidomimetic cyclophanes as strong organogelators. *Chemical Communications*, **2002**, 738-9	3.8	69
72	Influence of the solvent on the self-assembly of a modified amyloid beta peptide fragment. II. NMR and computer simulation investigation. *Journal of Physical Chemistry B*, **2010**, 114, 940-51	3.4	68
71	Tandem reactions in self-sorted catalytic molecular hydrogels. *Chemical Science*, **2016**, 7, 5568-5572	9.4	65
70	pH-Tunable hydrogelators for water purification: structural optimisation and evaluation. *Chemistry - A European Journal*, **2012**, 18, 2692-9	4.8	64
69	Self-assembly of a peptide amphiphile: transition from nanotape fibrils to micelles. *Soft Matter*, **2013**, 9, 3558	3.6	64
68	Reactive organogels: self-assembled support for functional materials. *Organic Letters*, **2005**, 7, 4791-4	6.2	56
67	Insight into the esterase like activity demonstrated by an imidazole appended self-assembling hydrogelator. *Chemical Communications*, **2015**, 51, 13213-6	5.8	54
66	Substrate selective catalytic molecular hydrogels: the role of the hydrophobic effect. *Chemical Communications*, **2013**, 49, 10608-10	5.8	51
65	Remarkable increase in basicity associated with supramolecular gelation. *Organic and Biomolecular Chemistry*, **2009**, 7, 3091	3.9	51
64	Understanding the Expression of Molecular Chirality in the Self-Assembly of a Peptidomimetic Organogelator. *European Journal of Organic Chemistry*, **2005**, 2005, 481-485	3.2	50
63	Influence of end-capping on the self-assembly of model amyloid peptide fragments. *Journal of Physical Chemistry B*, **2011**, 115, 2107-16	3.4	46
62	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 1H and 13C NMR Study. *Journal of Organic Chemistry*, **1999**, 64, 6135-6146	4.2	46
61	Enantioselective binding of amino acids and amino alcohols by self-assembled chiral basket-shaped receptors. *Tetrahedron*, **2004**, 60, 291-300	2.4	45
60	Metastable hydrogels from aromatic dipeptides. *Chemical Communications*, **2016**, 52, 13889-13892	5.8	41
59	Rational design of heat-set and specific-ion-responsive supramolecular hydrogels based on the Hofmeister effect. *Chemistry - A European Journal*, **2014**, 20, 14465-72	4.8	41

58	Supramolecular hydrogels for enzymatically triggered self-immolative drug delivery. *Tetrahedron*, **2010**, 66, 2614-2618	2.4	41
57	Selective catechol-triggered supramolecular gel disassembly. *Chemical Communications*, **2010**, 46, 7996-8	5.8	38
56	Protonation tendencies of azaparacyclophanes. A thermodynamic and NMR study. *Journal of the Chemical Society Perkin Transactions II*, **1994**, 1253-1259		38
55	Self-assembly studies of a chiral bisurea-based superhydrogelator. *Chemistry - A European Journal*, **2012**, 18, 14725-31	4.8	37
54	Towards Supramolecular Catalysis with Small Self-assembled Peptides. *Israel Journal of Chemistry*, **2015**, 55, 711-723	3.4	36
53	Dynamic Peptide Library for the Discovery of Charge Transfer Hydrogels. *ACS Applied Materials & Interfaces*, **2015**, 7, 25946-54	9.5	35
52	Supramolecular gel formation and self-correction induced by aggregation-driven conformational changes. *Chemical Communications*, **2009**, 209-11	5.8	34
51	Silk-inspired low-molecular-weight organogelator. *Langmuir*, **2006**, 22, 7793-7	4	34
50	Aldehyde responsive supramolecular hydrogels: towards biomarker-specific delivery systems. *Chemical Communications*, **2011**, 47, 4706-8	5.8	33
49	Thermodynamic and Kinetic Study of the Fibrillization of a Family of Tetrapeptides and Its Application to Self-Sorting. What Takes So Long?. *Chemistry of Materials*, **2015**, 27, 3358-3365	9.6	31
48	Morphology templating of nanofibrous silica through pH-sensitive gels: in situ and post-diffusion strategies. *Journal of Materials Chemistry*, **2006**, 16, 1817-1824		30
47	HRMAS 1H NMR as a tool for the study of supramolecular gels. *Soft Matter*, **2010**, 6, 1875	3.6	29
46	Tetrapeptidic molecular hydrogels: self-assembly and co-aggregation with amyloid fragment A1-40. *Chemistry - A European Journal*, **2014**, 20, 1023-31	4.8	28
45	Molecular recognition through divalent interactions with a self-assembled fibrillar network of a supramolecular organogel. *Organic and Biomolecular Chemistry*, **2008**, 6, 4378-83	3.9	28
44	Thermodynamic and fluorescence emission studies on chemosensors containing anthracene fluorophores. Crystal structure of {[CuL1Cl]Cl}2·2H2O [L1 = N-(3-aminopropyl)-N?-3-(anthracen-9-ylmethyl)aminopropylethane-1,2-diamine]. *Journal of the Chemical Society Dalton Transactions*, **1999**, 915-922		28
43	Co-assembly of tetrapeptides into complex pH-responsive molecular hydrogel networks. *Journal of Materials Chemistry B*, **2014**, 2, 6192-6197	7.3	27
42	Study of the effect of polymorphism on the self-assembly and catalytic performance of an L-proline based molecular hydrogelator. *New Journal of Chemistry*, **2015**, 39, 3785-3791	3.6	24
41	Organic reactions in supramolecular gel media: reaction driven release of reagents in a macrocyclisation reaction. *Tetrahedron*, **2007**, 63, 7321-7325	2.4	22

40	Synthesis of a Double-Network Supramolecular Hydrogel by Having One Network Catalyse the Formation of the Second. *Chemistry - A European Journal*, **2017**, 23, 2018-2021	4.8	21
39	Structural and morphological studies of the dipeptide based L-Pro-L-Val organocatalytic gels and their rheological behaviour. *Soft Matter*, **2012**, 8, 8865	3.6	21
38	Biomimetic Self-Assembly of Tetrapeptides into Fibrillar Networks and Organogels. *European Journal of Organic Chemistry*, **2008**, 2008, 4580-4590	3.2	21
37	N-Tosylated Polyaza[n](1,4)naphthalenophanes. Synthesis and Conformational Studies. *Journal of Organic Chemistry*, **1994**, 59, 1067-1071	4.2	21
36	Tuning chelation by the surfactant-like peptide A6H using predetermined pH values. *Biomacromolecules*, **2014**, 15, 591-8	6.9	20
35	Triazolyl-Based Molecular Gels as Ligands for Autocatalytic 'Click' Reactions. *Chemistry - A European Journal*, **2016**, 22, 8676-84	4.8	20
34	Vibrational Circular Dichroism Shows Reversible Helical Handedness Switching in Peptidomimetic l-Valine Fibrils. *Journal of Physical Chemistry Letters*, **2012**, 3, 2120-4	6.4	19
33	Synthesis, aggregation, and binding behavior of synthetic amphiphilic receptors. *Journal of Organic Chemistry*, **2001**, 66, 1538-47	4.2	18
32	Rational design of a supramolecular gel based on a Zn(II)Salophen bis-dipeptide derivative. *RSC Advances*, **2016**, 6, 57306-57309	3.7	17
31	Morphology Diversity of L-Phenylalanine-Based Short Peptide Supramolecular Aggregates and Hydrogels. *ChemNanoMat*, **2018**, 4, 796-800	3.5	17
30	Solid-State Polymorphic Transition and Solvent-Free Self-Assembly in the Growth of Organic Crystalline Microfibers. *Crystal Growth and Design*, **2008**, 8, 11-13	3.5	17
29	Guest-Induced Selective Functionalization of Polyaza[n]paracyclophanes. *Journal of Organic Chemistry*, **1998**, 63, 1810-1818	4.2	17
28	Anion-responsive diguanidinium-based chiral organogelators. *Chemistry - A European Journal*, **2012**, 18, 13038-47	4.8	16
27	Competition versus Cooperation in Catalytic Hydrogelators for anti-Selective Mannich Reaction. *Chemistry - A European Journal*, **2017**, 23, 9946-9951	4.8	15
26	Solvent-free construction of self-assembled 1D nanostructures from low-molecular-weight organogelators: sublimationvs.gelation. *Soft Matter*, **2009**, 5, 3727	3.6	15
25	Polyaza[n](1,4)naphthalenophanes and polyaza[n](9,10)anthracenophanes. *Tetrahedron*, **2002**, 58, 2839-2846	2.4	14
24	Selective monofunctionalization of polyaza[n]paracyclophanes. *Tetrahedron Letters*, **1994**, 35, 9075-9078	2	14
23	CO2 fixation and activation by metal complexes of small polyazacyclophanes. *Journal of Physical Organic Chemistry*, **2001**, 14, 495-500	2.1	13

22	Freezing capture of polymorphic aggregates of bolaamphiphilic (L)-valine-based molecular hydrogelators. *Chemistry - A European Journal*, **2014**, 20, 5762-7	4.8	12
21	One-pot synthesis of polyaza[n]naphthalenophanes and polyaza[n]anthracenophanes. *Tetrahedron Letters*, **1998**, 39, 3799-3802	2	12
20	Antioxidant capacity of abietanes from Sphacele salviae. *Natural Product Research*, **2002**, 16, 277-81		12
19	Tetraaza-2,2?-biphenylophanes: larger is not always more flexible. The role of intramolecular H-bonding in polyazamacrocycles. *Tetrahedron Letters*, **2002**, 43, 1817-1819	2	11
18	In situ synthesis-gelation at room temperature vs. heating-cooling procedure. Fine tuning of molecular gels derived from succinic acid and L-valine. *Journal of Colloid and Interface Science*, **2013**, 412, 65-71	9.3	10
17	Structural insight into the aggregation of L-prolyl dipeptides and its effect on organocatalytic performance. *Organic and Biomolecular Chemistry*, **2015**, 13, 592-600	3.9	9
16	Interplay of molecular hydrogelators and SDS affords responsive soft matter systems with tunable properties. *Langmuir*, **2013**, 29, 9544-50	4	9
15	Transient Catalytic Activity of a Triazole-based Gelator Regulated by Molecular Gel Assembly/Disassembly. *ChemistrySelect*, **2017**, 2, 854-862	1.8	8
14	Self-assembled hybrid hydrogels based on an amphipathic low molecular weight peptide derivative and a water-soluble poly(para-phenylene vinylene). *RSC Advances*, **2017**, 7, 9562-9566	3.7	8
13	Selective Interaction of Dopamine with the Self-Assembled Fibrillar Network of a Molecular Hydrogel Revealed by STD-NMR. *Chemistry - A European Journal*, **2015**, 21, 13925-9	4.8	7
12	A remarkable selectivity in the N-functionalization of polyaza[n]paracyclophanes. Synthesis of N-(4-picolyl)-substituted 2,6,9,13-Tetraaza[14]paracyclophanes. *Tetrahedron*, **1997**, 53, 16169-16176	2.4	7
11	Transcription of Nanofibrous Cerium Phosphate Using a pH-Sensitive Lipodipeptide Hydrogel Template. *Gels*, **2017**, 3,	4.2	6
10	Aggregation behaviour and binding properties of an l-lysine appended glycoluril receptor. *Tetrahedron Letters*, **2001**, 42, 2751-2753	2	6
9	New strategies in the development of polynuclear complexes. Crystal structure of the tetranuclear copper(II) complex [Cu4(L1)2(OH)4Cl2(H2O)2]2(H3O2)(ClO4)2Cl·2H2O (L1=2,5,8,11-tetraaza[12](1,4)naphthalenecyclophane). *Inorganica Chimica Acta*, **2000**, 300-302, 970-977	2.7	5
8	A minimalistic catalytically-active cell mimetic made of a supra-molecular hydrogel encapsulated into a polymersome. *Chemical Communications*, **2020**, 56, 14487-14490	5.8	5
7	Two-Component Peptidic Molecular Gels for Topical Drug Delivery of Naproxen. *ACS Applied Bio Materials*, **2021**, 4, 935-944	4.1	5
6	Tandem Catalysis of an Aldol-'Click' Reaction System within a Molecular Hydrogel. *Molecules*, **2016**, 21,	4.8	4
5	Self-assembled multivalent (SAMul) ligand systems with enhanced stability in the presence of human serum. *Biomaterials Science*, **2019**, 7, 3812-3820	7.4	3

4	Diamine acylation with amino acid derivatives: an example of proximity effect in organic reactivity induced by supramolecular aggregation. *Tetrahedron Letters*, **2015**, 56, 1132-1134	2	2
3	Frontispiece: Peptide-Based Molecular Hydrogels as Supramolecular Protein Mimics. *Chemistry - A European Journal*, **2017**, 23,	4.8	1
2	Catalytic Supramolecular Gels **2022**, 81-92		1
1	Mechanistic Insight into the Lability of the Benzyloxycarbonyl (Z) Group in N-Protected Peptides under Mild Basic Conditions. *European Journal of Organic Chemistry*, **2014**, 2014, 3372-3378	3.2	