

Jean-Marie Lehn

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186 papers	24,712 citations	74 h-index	156 g-index
196 ext. papers	26,246 ext. citations	10.1 avg, IF	7.77 L-index

#	Paper	IF	Citations
186	Supramolecular Chemistry: Scope and Perspectives Molecules, Supramolecules, and Molecular Devices (Nobel Lecture). <i>Angewandte Chemie International Edition in English</i> , 1988 , 27, 89-112		2853
185	Toward self-organization and complex matter. <i>Science</i> , 2002 , 295, 2400-3	33.3	1916
184	From supramolecular chemistry towards constitutional dynamic chemistry and adaptive chemistry. <i>Chemical Society Reviews</i> , 2007 , 36, 151-60	58.5	1513
183	Grid-type metal ion architectures: functional metallosupramolecular arrays. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3644-62	16.4	1163
182	Toward complex matter: supramolecular chemistry and self-organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 4763-8	11.5	1109
181	Dynamic Combinatorial Chemistry and Virtual Combinatorial Libraries. <i>Chemistry - A European Journal</i> , 1999 , 5, 2455-2463	4.8	800
180	Molecular recognition directed self-assembly of supramolecular liquid crystalline polymers from complementary chiral components. <i>Advanced Materials</i> , 1990 , 2, 254-257	24	590
179	From precision polymers to complex materials and systems. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	555
178	Dynamers: dynamic molecular and supramolecular polymers. <i>Progress in Polymer Science</i> , 2005 , 30, 814-831	31.6	514
177	Self-Assembly of a Circular Double Helicate. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 1838-1840		513
176	Perspectives in chemistry--steps towards complex matter. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2836-50	16.4	460
175	Self-Assembly of Tetra- and Hexanuclear Circular Helicates. <i>Journal of the American Chemical Society</i> , 1997 , 119, 10956-10962	16.4	457
174	DYNAMERS: dynamic polymers as self-healing materials. <i>Chemical Society Reviews</i> , 2015 , 44, 3786-807	58.5	448
173	Drug discovery by dynamic combinatorial libraries. <i>Nature Reviews Drug Discovery</i> , 2002 , 1, 26-36	64.1	405
172	Perspectives in chemistry--aspects of adaptive chemistry and materials. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3276-89	16.4	328
171	Gelation-driven component selection in the generation of constitutional dynamic hydrogels based on guanine-quartet formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5938-43	11.5	303
170	Spin Crossover in a Supramolecular Fe ⁴ II [20] Grid Triggered by Temperature, Pressure, and Light. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 2504-2507	16.4	294

169	Supramolecular polymers generated from heterocomplementary monomers linked through multiple hydrogen-bonding arrays--formation, characterization, and properties. <i>Chemistry - A European Journal</i> , 2002 , 8, 1227-44	4.8	274
168	Multicomponent Self-Assembly: Spontaneous Formation of a Cylindrical Complex from Five Ligands and Six Metal Ions. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 69-72		256
167	Molecular recognition directed self-assembly of ordered supramolecular strands by cocrystallization of complementary molecular components. <i>Journal of the Chemical Society Chemical Communications</i> , 1990 , 479		227
166	Programmed chemical systems: multiple subprograms and multiple processing/expression of molecular information. <i>Chemistry - A European Journal</i> , 2000 , 6, 2097-102	4.8	194
165	Light-driven molecular motors: imines as four-step or two-step unidirectional rotors. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13114-7	16.4	191
164	In situ generation and screening of a dynamic combinatorial carbohydrate library against concanavalin A. <i>ChemBioChem</i> , 2000 , 1, 41-8	3.8	183
163	Metallionen-Gitterarchitekturen: funktionelle supramolekulare Metallkomplexe. <i>Angewandte Chemie</i> , 2004 , 116, 3728-3747	3.6	172
162	Configurational and constitutional information storage: multiple dynamics in systems based on pyridyl and acyl hydrazones. <i>Chemistry - A European Journal</i> , 2011 , 17, 248-58	4.8	167
161	Coordination Arrays: Tetranuclear Cobalt(II) Complexes with [2x2]-Grid Structure. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 1842-1844		167
160	Controlled Arrangement of Supramolecular Metal Coordination Arrays on Surfaces. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2547-2550	16.4	159
159	Supramolecular spintronic devices: spin transitions and magnetostructural correlations in [Fe ₄ L ₄] ⁸⁺ [2x2]-grid-type complexes. <i>Chemistry - A European Journal</i> , 2003 , 9, 4422-9	4.8	143
158	Selbstaufbau eines zirkularen Doppelhelicates. <i>Angewandte Chemie</i> , 1996 , 108, 1987-1990	3.6	138
157	Self-assembly, structure, and dynamic interconversion of metallosupramolecular architectures generated by Pb(II) binding-induced unfolding of a helical ligand. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10257-65	16.4	137
156	Conjecture: imines as unidirectional photodriven molecular motors-motional and constitutional dynamic devices. <i>Chemistry - A European Journal</i> , 2006 , 12, 5910-5	4.8	130
155	Self-organization by selection: generation of a metallosupramolecular grid architecture by selection of components in a dynamic library of ligands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 11970-4	11.5	130
154	Merging constitutional and motional covalent dynamics in reversible imine formation and exchange processes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9446-55	16.4	123
153	Reversible Diels-Alder reactions for the generation of dynamic combinatorial libraries. <i>Organic Letters</i> , 2005 , 7, 15-8	6.2	123
152	Supramolecular assemblies of a bis(terpyridine) ligand and of its [2x2] grid-type Zn(II) and Co(II) complexes on highly ordered pyrolytic graphite. <i>Chemistry - A European Journal</i> , 2002 , 8, 951-7	4.8	122

151	Scandium(III) catalysis of transimination reactions. Independent and constitutionally coupled reversible processes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5528-39	16.4	120
150	Self-assembly and structure of interconverting multinuclear inorganic arrays: a. <i>Chemistry - A European Journal</i> , 2000 , 6, 4510-7	4.8	119
149	Dynamic combinatorial carbohydrate libraries: probing the binding site of the concanavalin A lectin. <i>Chemistry - A European Journal</i> , 2004 , 10, 1711-5	4.8	117
148	Constitutional dynamic self-sensing in a zinc(II)/polyiminofluorenes system. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11448-9	16.4	117
147	Protonic and temperature modulation of constituent expression by component selection in a dynamic combinatorial library of imines. <i>Chemistry - A European Journal</i> , 2006 , 12, 1715-22	4.8	115
146	Self-assembled lamellar complexes of siRNA with lipidic aminoglycoside derivatives promote efficient siRNA delivery and interference. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 16534-9	11.5	115
145	Helicate self-organisation: positive cooperativity in the self-assembly of double-helical metal complexes. <i>Journal of the Chemical Society Chemical Communications</i> , 1992 , 838		113
144	Metallodynamers: neutral dynamic metallosupramolecular polymers displaying transformation of mechanical and optical properties on constitutional exchange. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5007-10	16.4	108
143	Dynamic covalent chemistry of bisimines at the solid/liquid interface monitored by scanning tunnelling microscopy. <i>Nature Chemistry</i> , 2014 , 6, 1017-23	17.6	106
142	Tunable fluorene-based dynamers through constitutional dynamic chemistry. <i>Chemistry - A European Journal</i> , 2006 , 12, 1723-35	4.8	105
141	Perspektiven der Chemie 5 Stufen zur komplexen Materie. <i>Angewandte Chemie</i> , 2013 , 125, 2906-2921	3.6	104
140	Dynamers: Dynamic Molecular and Supramolecular Polymers. <i>Australian Journal of Chemistry</i> , 2010 , 63, 611	1.2	104
139	Glycodynamers: dynamic polymers bearing oligosaccharides residues--generation, structure, physicochemical, component exchange, and lectin binding properties. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2573-84	16.4	104
138	Durch Temperatur, Druck oder Licht induzierter Spinübergang in einer supramolekularen Fe-[20]-Gitterverbindung. <i>Angewandte Chemie</i> , 2000 , 112, 2563-2566	3.6	103
137	Formation of RACK- and grid-type metallosupramolecular architectures and generation of molecular motion by reversible uncoiling of helical ligand strands. <i>Chemistry - A European Journal</i> , 2006 , 12, 4503-22	4.8	101
136	Synthesis of ionisable [2 x 2] grid-type metallo-arrays and reversible protonic modulation of the optical properties of the [Co4(II)L4]8+ species. <i>Chemical Communications</i> , 2003 , 1338-9	5.8	101
135	Polyaza macrobicyclic cryptands: synthesis, crystal structures of a cyclophane type macrobicyclic cryptand and of its dinuclear copper(I) cryptate, and anion binding features. <i>Journal of the Chemical Society Chemical Communications</i> , 1987 , 1691		99
134	Double dynamers: molecular and supramolecular double dynamic polymers. <i>Chemical Communications</i> , 2005 , 1519-21	5.8	97

133	Helicity-Encoded Molecular Strands: Efficient Access by the Hydrazone Route and Structural Features. <i>Helvetica Chimica Acta</i> , 2003 , 86, 1598-1624	2	97
132	Hierarchical self-assembly of supramolecular spintronic modules into 1D- and 2D-architectures with emergence of magnetic properties. <i>Chemistry - A European Journal</i> , 2004 , 11, 94-100	4.8	94
131	Self-Assembly and Characterization of Multimetallic Grid-Type Lead(II) Complexes. <i>Chemistry - A European Journal</i> , 1999 , 5, 1803-1808	4.8	94
130	Glycodynamers: fluorescent dynamic analogues of polysaccharides. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3556-9	16.4	93
129	Synthesis and Protonation Features of 24-, 27- and 32-membered Macrocyclic Polyamines. <i>Helvetica Chimica Acta</i> , 1983 , 66, 1262-1278	2	93
128	Adaptation in constitutional dynamic libraries and networks, switching between orthogonal metallosselection and photoselection processes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9509-18	16.4	92
127	Selbstorganisation von Multikomponenten-systemen: spontane Bildung eines zylinderförmigen Komplexes aus fünf Liganden und sechs Metall-Ionen. <i>Angewandte Chemie</i> , 1993 , 105, 92-95	3.6	92
126	Self-Assembly at the Air/Water Interface. In-Situ Preparation of Thin Films of Metal Ion Grid Architectures. <i>Journal of the American Chemical Society</i> , 1998 , 120, 4850-4860	16.4	89
125	Self-complementary hydrogen bonding heterocycles designed for the enforced self-assembly into supramolecular macrocycles. <i>Chemical Communications</i> , 1996 , 1527	5.8	89
124	Perspektiven der Chemie Aspekte adaptiver Chemie und adaptiver Materialien. <i>Angewandte Chemie</i> , 2015 , 127, 3326-3340	3.6	88
123	The Bundle Approach to molecular channels synthesis of a macrocycle-based molecular bundle. <i>Tetrahedron Letters</i> , 1988 , 29, 3803-3806	2	88
122	Driven evolution of a constitutional dynamic library of molecular helices toward the selective generation of [2 x 2] gridlike arrays under the pressure of metal ion coordination. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16748-63	16.4	84
121	Thermoresponsive dynamers: thermally induced, reversible chain elongation of amphiphilic poly(acylhydrazones). <i>Journal of the American Chemical Society</i> , 2011 , 133, 10966-73	16.4	83
120	Generation of dynamic constitutional diversity and driven evolution in helical molecular strands under Lewis acid catalyzed component exchange. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4902-6	16.4	83
119	Chemical biology of dynamic combinatorial libraries. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002 , 1572, 178-186	4	83
118	Multiple expression of molecular information: enforced generation of different supramolecular inorganic architectures by processing of the same ligand information through specific coordination algorithms. <i>Chemistry - A European Journal</i> , 2000 , 6, 2103-11	4.8	83
117	Dynamic sol-gel interconversion by reversible cation binding and release in G-quartet-based supramolecular polymers. <i>Chemical Communications</i> , 2005 , 5763-5	5.8	82
116	Adaptation to shape switching by component selection in a constitutional dynamic system. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5546-59	16.4	79

- 115 Solid-state self-assembly of polymeric double helicates leading to linear arrays of silver(I) ions and reversible strand/double helix interconversion in solution. *Chemistry - A European Journal*, **2007**, 13, 59-68 4.8 79
- 114 Electric-field modulation of component exchange in constitutional dynamic liquid crystals. *Angewandte Chemie - International Edition*, **2006**, 45, 4619-24 16.4 78
- 113 Multilevel Molecular Electronic Species: Electrochemical Reduction of a [2D] Co Grid-Type Complex by 11 Electrons in 10 Reversible Steps. *Angewandte Chemie - International Edition*, **2000**, 39, 4139-4142 16.4 75
- 112 Structural selection in G-quartet-based hydrogels and controlled release of bioactive molecules. *Chemistry - an Asian Journal*, **2008**, 3, 134-9 4.5 73
- 111 Self-Assembly, Structure, and Physical Properties of Tetranuclear ZnII and CoII Complexes of [2D] Grid-Type. *European Journal of Inorganic Chemistry*, **1999**, 1999, 1421-1428 2.3 73
- 110 Constitutional dynamic chemistry: bridge from supramolecular chemistry to adaptive chemistry. *Topics in Current Chemistry*, **2012**, 322, 1-32 70
- 109 Self-Assembly of Tricuprous Double Helicates: Thermodynamics, Kinetics, and Mechanism. *Helvetica Chimica Acta*, **2001**, 84, 1694-1711 2 68
- 108 Reversible switching between macrocyclic and polymeric states by morphological control in a constitutional dynamic system. *Angewandte Chemie - International Edition*, **2008**, 47, 2240-3 16.4 67
- 107 Messages in molecules: ligand/cation coding and self-recognition in a constitutionally dynamic system of heterometallic double helicates. *Chemistry - A European Journal*, **2006**, 12, 5632-41 4.8 67
- 106 Anion-receptor molecules: Macrocyclic and macrobicyclic effects on anion binding by polyammonium receptor molecules. *Helvetica Chimica Acta*, **1988**, 71, 749-756 2 67
- 105 Structural and functional evolution of a library of constitutional dynamic polymers driven by alkali metal ion recognition. *Angewandte Chemie - International Edition*, **2009**, 48, 7635-8 16.4 66
- 104 Adaptation of dynamic covalent systems of imine constituents to medium change by component redistribution under reversible phase separation. *Journal of the American Chemical Society*, **2012**, 134, 12861-8 16.4 65
- 103 Ion-triggered multistate molecular switching device based on regioselective coordination-controlled ion binding. *Chemistry - A European Journal*, **2005**, 11, 6818-28 4.8 65
- 102 A New Macrobicyclic Tris-bipyridine Ligand and Its Cu and Ag Complexes. *Angewandte Chemie International Edition in English*, **1991**, 30, 1331-1333 65
- 101 Synthetic Molecular Motors: Thermal N Inversion and Directional Photoinduced C=N Bond Rotation of Camphorquinone Imines. *Angewandte Chemie - International Edition*, **2015**, 54, 14345-8 16.4 64
- 100 Two-Level Self-Organisation of Arrays of [2D] Grid-Type Tetranuclear Metal Complexes by Hydrogen Bonding. *European Journal of Inorganic Chemistry*, **2001**, 2001, 1515-1521 2.3 64
- 99 Controlled Folding, Motional, and Constitutional Dynamic Processes of Polyheterocyclic Molecular Strands. *Angewandte Chemie - International Edition*, **2016**, 55, 4130-54 16.4 61
- 98 Helicate self-assembly from heterotopic ligand strands of specific binding site sequence. *Chemical Communications*, **1996**, 2733 5.8 61

97	Protonic modulation of redox properties in ionisable [2 x 2] grid-like metalloarrays. <i>Chemical Communications</i> , 2004 , 718-9	5.8	59
96	Training a Constitutional Dynamic Network for Effector Recognition: Storage, Recall, and Erasing of Information. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11783-91	16.4	58
95	Self-assembly in self-organized inorganic systems: a view of programmed metallosupramolecular architectures. <i>Journal of the Brazilian Chemical Society</i> , 2001 , 12, 431	1.5	58
94	Columnar Self-Assemblies of Triarylaminas as Scaffolds for Artificial Biomimetic Channels for Ion and for Water Transport. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3721-3727	16.4	57
93	A light-induced reversible phase separation and its coupling to a dynamic library of imines. <i>Chemical Science</i> , 2014 , 5, 1475-1483	9.4	57
92	Reversible constitutional switching between macrocycles and polymers induced by shape change in a dynamic covalent system. <i>New Journal of Chemistry</i> , 2009 , 33, 271	3.6	56
91	DyNAs: constitutional dynamic nucleic acid analogues. <i>Chemistry - A European Journal</i> , 2006 , 12, 8581-8	4.8	56
90	Mixed-valence, mixed-spin-state, and heterometallic [2x2] grid-type arrays based on heteroditopic hydrazone ligands: synthesis and electrochemical features. <i>Chemistry - A European Journal</i> , 2005 , 11, 2549-65	4.8	56
89	Kontrollierte Anordnung und Orientierung supramolekularer Metallgitter auf Festkörperoberflächen. <i>Angewandte Chemie</i> , 1999 , 111, 2701-2705	3.6	54
88	Kanamycin A-derived cationic lipids as vectors for gene transfection. <i>ChemBioChem</i> , 2005 , 6, 1023-33	3.8	52
87	Polyaza-macrocycles of cyclophane type: Synthesis, structure of a chloroform inclusion complex and anion binding.. <i>Tetrahedron Letters</i> , 1987 , 28, 3489-3492	2	52
86	Adaptation and optical signal generation in a constitutional dynamic network. <i>Chemistry - A European Journal</i> , 2009 , 15, 5640-5	4.8	51
85	Photo- and thermoresponsive supramolecular assemblies: reversible photorelease of K ⁺ ions and constitutional dynamics. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3940-3	16.4	50
84	Crystal structure of a polyfunctional macrocyclic K ⁺ complex provides a solid-state model of a K ⁺ channel. <i>Nature</i> , 1982 , 295, 526-7	50.4	50
83	Mechanistic features, cooperativity, and robustness in the self-assembly of multicomponent silver(I) grid-type metalloarchitectures. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2760-4	16.4	49
82	Molecular Biodynamers: Dynamic Covalent Analogues of Biopolymers. <i>Accounts of Chemical Research</i> , 2017 , 50, 376-386	24.3	48
81	Electric-field triggered controlled release of bioactive volatiles from imine-based liquid crystalline phases. <i>Chemistry - A European Journal</i> , 2009 , 15, 117-24	4.8	48
80	Generation of [20] Grid Metallosupramolecular Architectures from Preformed Ditopic Bis(acylhydrazone) Ligands and through Component Self-Assembly. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 2944-2965	2.3	48

79	Aminoglycoside-derived cationic lipids as efficient vectors for gene transfection in vitro and in vivo. <i>Journal of Gene Medicine</i> , 2002 , 4, 517-26	3.5	48
78	Controlling the Catalytic Functions of DNAzymes within Constitutional Dynamic Networks of DNA Nanostructures. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9662-9671	16.4	47
77	Biodynamers: self-organization-driven formation of doubly dynamic proteoids. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4177-83	16.4	47
76	Self-assembly of a symmetric tetracopper box-grid with guest trapping in the solid state. <i>Chemical Communications</i> , 1997 , 2231-2232	5.8	47
75	Self-Assembly, Structure and Solution Dynamics of Tetranuclear Zn ²⁺ Hydrazone [2D] Grid-Type Complexes. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 784-792	2.3	45
74	Modulation of the supramolecular structure of G-quartet assemblies by dynamic covalent decoration. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10058-9	16.4	42
73	Dynamic polyimine macrobicyclic cryptands - self-sorting with component selection. <i>Chemical Science</i> , 2019 , 10, 1836-1843	9.4	41
72	Spin State Chemistry: Modulation of Ligand p K by Spin State Switching in a [2D] Iron(II) Grid-Type Complex. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8218-8227	16.4	39
71	Structural and metallo selectivity in the assembly of [2D] grid-type metallosupramolecular species: mechanisms and kinetic control. <i>Dalton Transactions</i> , 2011 , 40, 12320-32	4.3	39
70	Aminoglycoside-Derived Cationic Lipids for Gene Transfection: Synthesis of Kanamycin[A Derivatives. <i>European Journal of Organic Chemistry</i> , 2003 , 2003, 2764-2774	3.2	39
69	Structural features directing the specificity and functionality of metallo-supramolecular grid-type architectures. <i>Dalton Transactions</i> , 2009 , 5787-802	4.3	38
68	Metallodynamers: Neutral Dynamic Metallosupramolecular Polymers Displaying Transformation of Mechanical and Optical Properties on Constitutional Exchange. <i>Angewandte Chemie</i> , 2007 , 119, 5095-5098	3.6	38
67	Self-Assembly of Non-Biological Polymeric Strands Undergoing Enforced Helical Self-Organization. <i>Helvetica Chimica Acta</i> , 2003 , 86, 3417-3426	2	38
66	The Photodynamic Covalent Bond: Sensitized Alkoxyamines as a Tool To Shift Reaction Networks Out-of-Equilibrium Using Light Energy. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7647-7657	16.4	35
65	Orthogonal Operation of Constitutional Dynamic Networks Consisting of DNA-Tweezer Machines. <i>ACS Nano</i> , 2017 , 11, 12027-12036	16.7	35
64	Glycodynamers: dynamic analogs of arabinofuranoside oligosaccharides. <i>Biopolymers</i> , 2008 , 89, 486-96	2.2	35
63	Grid-double-helicate interconversion. <i>Chemical Communications</i> , 2013 , 49, 5733-5	5.8	34
62	Higher Order Constitutional Dynamic Networks: [2B] and [3B] Networks Displaying Multiple, Synergistic and Competitive Hierarchical Adaptation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2474-2483	16.4	33

61	Kinetic Selectivity and Thermodynamic Features of Competitive Imine Formation in Dynamic Covalent Chemistry. <i>Chemistry - A European Journal</i> , 2017 , 23, 11108-11118	4.8	33
60	Dynamic Diels-Alder Reactions of 9,10-Dimethylantracene: Reversible Adduct Formation, Dynamic Exchange Processes and Thermal Fluorescence Modulation. <i>European Journal of Organic Chemistry</i> , 2009 , 2009, 1691-1697	3.2	31
59	Programmed single step self-assembly of a [2 D] grid architecture built on metallic centers of different coordination geometries. <i>Chemical Communications</i> , 2004 , 1168-1169	5.8	31
58	Highly sensitive magnetic effects induced by hydrogen-bonding interactions in a high-spin metallocsupramolecular Fe(4) (II) [2x2] grid-type complex. <i>Chemistry - A European Journal</i> , 2009 , 15, 2500-2504	4.8	30
57	Synthesis and Properties of Silver(I) and Copper(I) Helicates with Imine-Bridged Oligobipyridine Ligands. <i>European Journal of Inorganic Chemistry</i> , 1998 , 1998, 977-982	2.3	30
56	Metallodynamers: neutral double-dynamic metallocsupramolecular polymers. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 1324-35	4.5	30
55	DNA-Based Multiconstituent Dynamic Networks: Hierarchical Adaptive Control over the Composition and Cooperative Catalytic Functions of the Systems. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12077-12089	16.4	30
54	Paromomycin and neomycin B derived cationic lipids: synthesis and transfection studies. <i>Journal of Controlled Release</i> , 2012 , 158, 461-9	11.7	29
53	Evolution of a constitutional dynamic library driven by self-organisation of a helically folded molecular strand. <i>Chemistry - A European Journal</i> , 2010 , 16, 4903-10	4.8	29
52	Dynamic Covalent Metathesis in the C?C/C?N Exchange between Knoevenagel Compounds and Imines. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5560-5568	16.4	28
51	Organocatalysis of C?N/C?N and C?C/C?N Exchange in Dynamic Covalent Chemistry. <i>Helvetica Chimica Acta</i> , 2012 , 95, 2635-2651	2	28
50	Self-ordering of metallogrid complexes via directed hydrogen-bonding. <i>Dalton Transactions</i> , 2012 , 41, 13848-55	4.3	28
49	Two Morphologies of Stable, Highly Ordered Assemblies of a Long-Chain-Substituted [2 D]-Grid-Type FeII Complex Adsorbed on HOPG. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 2641-2647	2.3	28
48	From Coordination Chemistry to Adaptive Chemistry. <i>Advances in Inorganic Chemistry</i> , 2018 , 71, 3-78	2.1	27
47	Multivalent Metallocsupramolecular Assemblies as Effective DNA Binding Agents. <i>Chemistry - A European Journal</i> , 2018 , 24, 10802-10811	4.8	27
46	Multivalency by self-assembly: binding of concanavalin A to metallocsupramolecular architectures decorated with multiple carbohydrate groups. <i>Chemistry - A European Journal</i> , 2014 , 20, 6960-77	4.8	27
45	Synthetic Molecular Motors: Thermal N Inversion and Directional Photoinduced C?N Bond Rotation of Camphorquinone Imines. <i>Angewandte Chemie</i> , 2015 , 127, 14553-14556	3.6	24
44	Double Dynamic Supramolecular Polymers of Covalent Oligo-Dynamers. <i>Macromolecules</i> , 2013 , 46, 5664-5671	5.7	23

43	Multiple adaptation of constitutional dynamic networks and information storage in constitutional distributions of acylhydrazones. <i>Chemical Science</i> , 2019 , 10, 90-98	9.4	22
42	Reversible Switching between Macrocyclic and Polymeric States by Morphological Control in a Constitutional Dynamic System. <i>Angewandte Chemie</i> , 2008 , 120, 2272-2275	3.6	21
41	Reversible adaptation to photoinduced shape switching by oligomer-macrocycle interconversion with component selection in a three-state constitutional dynamic system. <i>Chemistry - A European Journal</i> , 2014 , 20, 16188-93	4.8	20
40	Pattern Generation and Information Transfer through a Liquid/Liquid Interface in 3D Constitutional Dynamic Networks of Imine Ligands in Response to Metal Cation Effectors. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12724-12737	16.4	19
39	Organocatalyzed and Uncatalyzed C?C/C?C and C?C/C?N Exchange Processes between Knoevenagel and Imine Compounds in Dynamic Covalent Chemistry. <i>Helvetica Chimica Acta</i> , 2014 , 97, 1219-1236	2	19
38	Dynamers: From Supramolecular Polymers to Adaptive Dynamic Polymers. <i>Advances in Polymer Science</i> , 2013 , 155-172	1.3	19
37	Photochemical and Electrochemical Triggered Bis(hydrazone) Switch. <i>Chemistry - A European Journal</i> , 2017 , 23, 14872-14882	4.8	19
36	Cooperative, bottom-up generation of rigid-rod nanostructures through dynamic polymer chemistry. <i>Polymer International</i> , 2010 , 59, 1477-1491	3.3	19
35	Adaptive Chemical Networks under Non-Equilibrium Conditions: The Evaporating Droplet. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13450-13454	16.4	18
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33	Time-Dependent Switching of Constitutional Dynamic Libraries and Networks from Kinetic to Thermodynamic Distributions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18560-18569	16.4	17
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31	Modulation of self-assembly and magnetism of Cu(II) grids in solution. <i>Chemical Communications</i> , 2011 , 47, 10951-3	5.8	16
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29	Nonlinear Kinetic Behavior in Constitutional Dynamic Reaction Networks. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16809-16814	16.4	15
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1	Imines as Threefold Functional Devices: Motional, Photochemical, Constitutional 2022 , 325-349		0