

# Nicolas Giuseppone

## 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.

109  
papers

5,072  
citations

39  
h-index

70  
g-index

132  
ext. papers

5,719  
ext. citations

11.8  
avg, IF

5.96  
L-index

#	Paper	IF	Citations
109	Photoswitchable Components to Drive Molecular Systems Away from Global Thermodynamic Minimum by Light1 <b>2021</b> , 275-304		0
108	Design of Chemical Fuel-Driven Self-Assembly Processes <b>2021</b> , 191-213		1
107	Design of Active Nanosystems Incorporating Biomolecular Motors <b>2021</b> , 379-422		0
106	Light-driven Rotary Molecular Motors for Out-of-Equilibrium Systems <b>2021</b> , 337-377		
105	Chemically Fueled, Transient Supramolecular Polymers <b>2021</b> , 165-190		
104	From Clocks to Synchrony: The Design of Bioinspired Self-Regulation in Chemical Systems <b>2021</b> , 61-90		
103	Kinetically Controlled Supramolecular Polymerization <b>2021</b> , 131-164		
102	Out-of-Equilibrium Threaded and Interlocked Molecular Structures <b>2021</b> , 305-336		1
101	Learning from Embryo Development to Engineer Self-organizing Materials <b>2021</b> , 21-60		2
100	De novo Design of Chemical Reaction Networks and Oscillators and Their Relation to Emergent Properties <b>2021</b> , 91-130		
99	Dynamic Combinatorial Chemistry Out of Equilibrium <b>2021</b> , 215-239		
98	Out-of-Equilibrium (Supra)molecular Systems and Materials: An Introduction <b>2021</b> , 1-19		
97	Controlling Self-Assembly of Nanoparticles Using Light 1 <b>2021</b> , 241-273		
96	Supramolecular Polymerization of Triarylamine-Based Macrocycles into Electroactive Nanotubes. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 6498-6504	16.4	7
95	Optoregulated force application to cellular receptors using molecular motors. <i>Nature Communications</i> , <b>2021</b> , 12, 3580	17.4	2
94	Template-Directed Synthesis of Redox-Active [c3]Daisy Chain Rotaxanes. <i>CheM</i> , <b>2021</b> , 7, 11-13	16.2	1
93	Spatially Addressed Supramolecular Nanowires: A Full Structural Characterization by GIWAXS. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 661-670	4.3	0

92	Design of Stimuli-Responsive Dynamic Covalent Delivery Systems for Volatile Compounds (Part 2): Fragrance-Releasing Cleavable Surfactants in Functional Perfumery Applications. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 13468-13476	4.8	5
91	Modulation of the Molecular Structure of Tri-aryl Amine Fibrils in Hybrid Poly[vinyl chloride] Gel/Organogel Systems. <i>Macromolecules</i> , <b>2021</b> , 54, 8104-8111	5.5	0
90	Design of Stimuli-Responsive Dynamic Covalent Delivery Systems for Volatile Compounds (Part 1): Controlled Hydrolysis of Micellar Amphiphilic Imines in Water. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 13457-13467	4.8	3
89	Light-Driven Molecular Motors Boost the Selective Transport of Alkali Metal Ions through Phospholipid Bilayers. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 15653-15660	16.4	2
88	Extraction of mechanical work from stimuli-responsive molecular systems and materials. <i>Trends in Chemistry</i> , <b>2021</b> ,	14.8	1
87	Structural properties of contractile gels based on light-driven molecular motors: a small-angle neutron and X-ray study. <i>Soft Matter</i> , <b>2020</b> , 16, 4008-4023	3.6	3
86	Homodyne dynamic light scattering in supramolecular polymer solutions: anomalous oscillations in intensity correlation function. <i>Soft Matter</i> , <b>2020</b> , 16, 2971-2993	3.6	
85	Design of Collective Motions from Synthetic Molecular Switches, Rotors, and Motors. <i>Chemical Reviews</i> , <b>2020</b> , 120, 310-433	68.1	175
84	Self-Assembly of Supramolecular Polymers of N-Centered Triarylamine Trisamides in the Light of Circular Dichroism: Reaching Consensus between Electrons and Nuclei. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 1020-1028	16.4	7
83	From Molecular Machines to Stimuli-Responsive Materials. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906036	24	64
82	Hybrid materials from tri-aryl amine organogelators and poly[vinyl chloride] networks. <i>Polymer</i> , <b>2020</b> , 207, 122814	3.9	3
81	Triarylamine-Based Supramolecular Polymers: Structures, Dynamics, and Functions. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 975-983	24.3	48
80	Unsymmetric Bistable [c2]Daisy Chain Rotaxanes which Combine Two Types of Electroactive Stoppers. <i>European Journal of Organic Chemistry</i> , <b>2019</b> , 2019, 3421-3432	3.2	6
79	Covalently Trapped Triarylamine-Based Supramolecular Polymers. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 14341-14348	4.8	2
78	Temperature Control of Sequential Nucleation-Growth Mechanisms in Hierarchical Supramolecular Polymers. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 13008-13016	4.8	15
77	Mechanical behaviour of contractile gels based on light-driven molecular motors. <i>Nanoscale</i> , <b>2019</b> , 11, 5197-5202	7.7	16
76	Autopoietic Behavior of Dynamic Covalent Amphiphiles. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 17125-17137	17.1	137
75	3D supramolecular self-assembly of [60]fullerene hexaadducts decorated with triarylamine molecules. <i>Chemical Communications</i> , <b>2018</b> , 54, 7657-7660	5.8	5

74	Supramolecular Electropolymerization. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 15975-15979	3.6	10
73	Supramolecular Electropolymerization. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 15749-15753	16.4	27
72	Anisotropic Self-Assembly of Supramolecular Polymers and Plasmonic Nanoparticles at the Liquid-Liquid Interface. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 2345-2350	16.4	44
71	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> , <b>2017</b> , 139, 3721-3727	16.4	57
70	Gram scale synthesis of functionalized and optically pure Feringa motors. <i>Tetrahedron</i> , <b>2017</b> , 73, 4874-4882	16.4	10
69	Controlled Sol-Gel Transitions by Actuating Molecular Machine Based Supramolecular Polymers. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 4923-4928	16.4	92
68	Dual-light control of nanomachines that integrate motor and modulator subunits. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 540-545	28.7	141
67	Bistable [c2] Daisy Chain Rotaxanes as Reversible Muscle-like Actuators in Mechanically Active Gels. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 14825-14828	16.4	83
66	Integration of molecular machines into supramolecular materials: actuation between equilibrium polymers and crystal-like gels. <i>Nanoscale</i> , <b>2017</b> , 9, 18456-18466	7.7	13
65	Hierarchical Self-Assembly of Supramolecular Muscle-Like Fibers. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 703-7	16.4	77
64	Hierarchical Self-Assembly of Supramolecular Muscle-Like Fibers. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 713-717	16.4	16
63	Supramolecular Organic Nanowires as Plasmonic Interconnects. <i>ACS Nano</i> , <b>2016</b> , 10, 2082-90	16.7	18
62	Long-Range Energy Transport via Plasmonic Propagation in a Supramolecular Organic Waveguide. <i>Nano Letters</i> , <b>2016</b> , 16, 2800-5	11.5	28
61	Self-assembly of supramolecular triarylamine nanowires in mesoporous silica and biocompatible electrodes thereof. <i>Nanoscale</i> , <b>2016</b> , 8, 5605-11	7.7	7
60	Self-assembly of benzene-tris(bis(p-benzyloxy)triphenylamine)carboxamide. <i>Comptes Rendus Chimie</i> , <b>2016</b> , 19, 117-122	2.7	4
59	Thermodynamic Selection of Supramolecular Nanomaterials from Dynamic Peptide Libraries. <i>Chem</i> , <b>2016</b> , 1, 826-829	16.2	3
58	pH and light-controlled self-assembly of bistable [c2] daisy chain rotaxanes. <i>Chemical Communications</i> , <b>2015</b> , 51, 4212-5	5.8	35
57	Macroscopic contraction of a gel induced by the integrated motion of light-driven molecular motors. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 161-5	28.7	232

56	Light-controlled morphologies of self-assembled triarylamine-fullerene conjugates. <i>ACS Nano</i> , <b>2015</b> , 9, 2760-72	16.7	35
55	Hydrogen-Bonded Multifunctional Supramolecular Copolymers in Water. <i>Langmuir</i> , <b>2015</b> , 31, 7738-48	4	7
54	Control over nanostructures and associated mesomorphic properties of doped self-assembled triarylamine liquid crystals. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 1938-48	4.8	21
53	Light Scattering Strategy for the Investigation of Time-Evolving Heterogeneous Supramolecular Self-Assemblies. <i>Physical Review Letters</i> , <b>2015</b> , 115, 085501	7.4	11
52	Core-shell inversion by pH modulation in dynamic covalent micelles. <i>Soft Matter</i> , <b>2014</b> , 10, 3926-37	3.6	13
51	Experimental and theoretical methods for the analyses of dynamic combinatorial libraries. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 3336-3349	3.6	31
50	Supramolecular self-assembly and radical kinetics in conducting self-replicating nanowires. <i>ACS Nano</i> , <b>2014</b> , 8, 10111-24	16.7	43
49	Healable supramolecular polymers as organic metals. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 11382-8	16.4	66
48	Reversible native chemical ligation: a facile access to dynamic covalent peptides. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6333-9	16.4	55
47	Supramolecular self-assemblies as functional nanomaterials. <i>Nanoscale</i> , <b>2013</b> , 5, 7098-140	7.7	519
46	Advances in supramolecular electronics - from randomly self-assembled nanostructures to addressable self-organized interconnects. <i>Advanced Materials</i> , <b>2013</b> , 25, 477-87	24	130
45	Muscle-like supramolecular polymers: integrated motion from thousands of molecular machines. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 12504-8	16.4	189
44	Dynamic combinatorial chemistry as a tool for the design of functional materials and devices. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 1031-49	58.5	226
43	Muscle-like Supramolecular Polymers: Integrated Motion from Thousands of Molecular Machines. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 12672-12676	3.6	37
42	Light-triggered self-assembly of triarylamine-based nanospheres. <i>Nanoscale</i> , <b>2012</b> , 4, 6748-51	7.7	19
41	Toward self-constructing materials: a systems chemistry approach. <i>Accounts of Chemical Research</i> , <b>2012</b> , 45, 2178-88	24.3	122
40	Reactions in Dynamic Self-Assemblies <b>2012</b> ,		1
39	Light-triggered self-construction of supramolecular organic nanowires as metallic interconnects. <i>Nature Chemistry</i> , <b>2012</b> , 4, 485-90	17.6	151

38	Hierarchical supramolecular structuring and dynamical properties of water soluble polyethylene glycol-perylene self-assemblies. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 5718-28	3.6	13
37	Dynamic combinatorial self-replicating systems. <i>Topics in Current Chemistry</i> , <b>2012</b> , 322, 87-105		25
36	Materials chemistry: catalytic accordions. <i>Nature</i> , <b>2011</b> , 473, 40-1	50.4	43
35	SANS, SAXS, and light scattering investigations of pH-responsive dynamic combinatorial mesophases. <i>Soft Matter</i> , <b>2011</b> , 7, 4787	3.6	22
34	Hierarchical formation of fibrillar and lamellar self-assemblies from guanosine-based motifs. <i>Journal of Nucleic Acids</i> , <b>2010</b> , 2010,	2.3	2
33	The Hierarchical Self-Assembly of Charge Nanocarriers: A Highly Cooperative Process Promoted by Visible Light. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 7128-7132	3.6	16
32	The hierarchical self-assembly of charge nanocarriers: a highly cooperative process promoted by visible light. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 6974-8	16.4	97
31	Dynamic Combinatorial Evolution within Self-Replicating Supramolecular Assemblies. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 1113-1116	3.6	48
30	Electric-field triggered controlled release of bioactive volatiles from imine-based liquid crystalline phases. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 117-24	4.8	48
29	Dynamic combinatorial evolution within self-replicating supramolecular assemblies. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 1093-6	16.4	158
28	Hierarchical functional gradients of pH-responsive self-assembled monolayers using dynamic covalent chemistry on surfaces. <i>Nature Chemistry</i> , <b>2009</b> , 1, 649-56	17.6	152
27	Dynablocks: Structural Modulation of Responsive Combinatorial Self-Assemblies at Mesoscale. <i>Macromolecules</i> , <b>2009</b> , 42, 5913-5915	5.5	33
26	Self-duplicating amplification in a dynamic combinatorial library. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 1826-7	16.4	106
25	DOSY NMR experiments as a tool for the analysis of constitutional and motional dynamic processes: implementation for the driven evolution of dynamic combinatorial libraries of helical strands. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2235-9	16.4	74
24	DOSY NMR Experiments as a Tool for the Analysis of Constitutional and Motional Dynamic Processes: Implementation for the Driven Evolution of Dynamic Combinatorial Libraries of Helical Strands. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 2267-2271	3.6	16
23	Tunable fluorene-based dynamers through constitutional dynamic chemistry. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 1723-35	4.8	105
22	Protonic and temperature modulation of constituent expression by component selection in a dynamic combinatorial library of imines. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 1715-22	4.8	115
21	Electric-field modulation of component exchange in constitutional dynamic liquid crystals. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 4619-24	16.4	78

20	Electric-Field Modulation of Component Exchange in Constitutional Dynamic Liquid Crystals. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 4735-4740	3.6	27
19	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> , <b>2006</b> , 128, 16748-63	16.4	84
18	Scandium(III) catalysis of transimination reactions. Independent and constitutionally coupled reversible processes. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 5528-39	16.4	120
17	Generation of dynamic constitutional diversity and driven evolution in helical molecular strands under Lewis acid catalyzed component exchange. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 4902-6	16.4	83
16	Generation of Dynamic Constitutional Diversity and Driven Evolution in Helical Molecular Strands under Lewis Acid Catalyzed Component Exchange. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 5010-5014	3.6	30
15	Constitutional dynamic self-sensing in a zinc(II)/polyiminofluorenes system. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 11448-9	16.4	117
14	Chemistry and biology of diazamide A: second total synthesis and biological investigations. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 12897-906	16.4	142
13	Studies toward diazamide A: development of a hetero-pinacol macrocyclization cascade for the construction of the bis-macrocyclic framework of the originally proposed structure. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 10174-82	16.4	52
12	(R)-bis-Binaphthoxy iodo lanthanides as catalysts for Diels-Alder reactions. <i>Journal of Molecular Catalysis A</i> , <b>2003</b> , 200, 185-189		16
11	Tandem Mukaiyama Michael-aldol reactions catalysed by samarium diiodide. <i>Tetrahedron</i> , <b>2001</b> , 57, 8989-8998	2.4	28
10	Iodo bis bistrimethylsilylamido lanthanides. <i>Journal of Organometallic Chemistry</i> , <b>2001</b> , 628, 271-274	2.3	19
9	Construction of the Complete Aromatic Core of Diazamide A by a Novel Hetero Pinacol Macrocyclization Cascade Reaction We thank Drs. D. H. Huang and G. Suizdak for NMR spectroscopic and mass spectrometric assistance, respectively. Financial support for this work was provided by the Center for Chemical Biology, the National Institutes of Health (USA).	16.4	66
8	Enantioselective Diels-Alder reactions catalyzed by samarium iodo binaphthoxides. <i>Tetrahedron Letters</i> , <b>2000</b> , 41, 639-642 from the Association pour la. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 4765-4769	2	17
7	(R)-Binaphthoxy diiodide lanthanides. <i>Journal of Organometallic Chemistry</i> , <b>1999</b> , 590, 248-252	2.3	13
6	New synthesis and reactions of [Sm(OTf) <sub>2</sub> (DME) <sub>2</sub> ], a salt-free samarium(II) triflate. <i>Tetrahedron Letters</i> , <b>1999</b> , 40, 3161-3164	2	21
5	Lanthanide iodides, a new family of efficient Lewis acid catalysts. <i>Coordination Chemistry Reviews</i> , <b>1998</b> , 178-180, 117-144	23.2	48
4	Mukaiyama aldol and Michael reactions catalyzed by lanthanide iodides. <i>Tetrahedron</i> , <b>1998</b> , 54, 13129-13148	14.8	47
3	Tandem Mukaiyama Michael-aldol reactions catalyzed by samarium diiodide. <i>Tetrahedron Letters</i> , <b>1998</b> , 39, 7845-7848	2	22

2 [c2]Daisy Chain Rotaxanes as Molecular Muscles. *CCS Chemistry*,83-96 7.2 14

1 Optoregulated force application to cellular receptors using molecular motors 2