

Nicolas Giuseppone

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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	Supramolecular self-assemblies as functional nanomaterials. <i>Nanoscale</i> , 2013 , 5, 7098-140	7.7	519
108	Macroscopic contraction of a gel induced by the integrated motion of light-driven molecular motors. <i>Nature Nanotechnology</i> , 2015 , 10, 161-5	28.7	232
107	Dynamic combinatorial chemistry as a tool for the design of functional materials and devices. <i>Chemical Society Reviews</i> , 2012 , 41, 1031-49	58.5	226
106	Muscle-like supramolecular polymers: integrated motion from thousands of molecular machines. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12504-8	16.4	189
105	Design of Collective Motions from Synthetic Molecular Switches, Rotors, and Motors. <i>Chemical Reviews</i> , 2020 , 120, 310-433	68.1	175
104	Dynamic combinatorial evolution within self-replicating supramolecular assemblies. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1093-6	16.4	158
103	Hierarchical functional gradients of pH-responsive self-assembled monolayers using dynamic covalent chemistry on surfaces. <i>Nature Chemistry</i> , 2009 , 1, 649-56	17.6	152
102	Light-triggered self-construction of supramolecular organic nanowires as metallic interconnects. <i>Nature Chemistry</i> , 2012 , 4, 485-90	17.6	151
101	Chemistry and biology of diazamide A: second total synthesis and biological investigations. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12897-906	16.4	142
100	Dual-light control of nanomachines that integrate motor and modulator subunits. <i>Nature Nanotechnology</i> , 2017 , 12, 540-545	28.7	141
99	Advances in supramolecular electronics - from randomly self-assembled nanostructures to addressable self-organized interconnects. <i>Advanced Materials</i> , 2013 , 25, 477-87	24	130
98	Toward self-constructing materials: a systems chemistry approach. <i>Accounts of Chemical Research</i> , 2012 , 45, 2178-88	24.3	122
97	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
96	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
95	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
94	Self-duplicating amplification in a dynamic combinatorial library. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1826-7	16.4	106
93	Tunable fluorene-based dynamers through constitutional dynamic chemistry. <i>Chemistry - A European Journal</i> , 2006 , 12, 1723-35	4.8	105

92	The hierarchical self-assembly of charge nanocarriers: a highly cooperative process promoted by visible light. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6974-8	16.4	97
91	Controlled Sol-Gel Transitions by Actuating Molecular Machine Based Supramolecular Polymers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4923-4928	16.4	92
90	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
89	Bistable [c2] Daisy Chain Rotaxanes as Reversible Muscle-like Actuators in Mechanically Active Gels. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14825-14828	16.4	83
88	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
87	Electric-field modulation of component exchange in constitutional dynamic liquid crystals. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4619-24	16.4	78
86	Hierarchical Self-Assembly of Supramolecular Muscle-Like Fibers. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 703-7	16.4	77
85	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> , 2008 , 47, 2235-9	16.4	74
84	Healable supramolecular polymers as organic metals. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11382-8	16.4	66
83	Construction of the Complete Aromatic Core of Diazonamide 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 Skaggs Institute for Chemical Biology, the National Institutes of Health (USA), American Chemical Society, and National Science Foundation. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10174-82	16.4	66
82	From Molecular Machines to Stimuli-Responsive Materials. <i>Advanced Materials</i> , 2020 , 32, e1906036	24	64
81	Columnar Self-Assemblies of Triarylaminines 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
80	Reversible native chemical ligation: a facile access to dynamic covalent peptides. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6333-9	16.4	55
79	Studies toward diazonamide 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> , 2004 , 126, 10174-82	16.4	52
78	Triarylamine-Based Supramolecular Polymers: Structures, Dynamics, and Functions. <i>Accounts of Chemical Research</i> , 2019 , 52, 975-983	24.3	48
77	Dynamic Combinatorial Evolution within Self-Replicating Supramolecular Assemblies. <i>Angewandte Chemie</i> , 2009 , 121, 1113-1116	3.6	48
76	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
75	Lanthanide iodides, a new family of efficient Lewis acid catalysts. <i>Coordination Chemistry Reviews</i> , 1998 , 178-180, 117-144	23.2	48

74	Mukaiyama aldol and Michael reactions catalyzed by lanthanide iodides. <i>Tetrahedron</i> , 1998 , 54, 13129-13148	14.8	47
73	Anisotropic Self-Assembly of Supramolecular Polymers and Plasmonic Nanoparticles at the Liquid-Liquid Interface. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2345-2350	16.4	44
72	Supramolecular self-assembly and radical kinetics in conducting self-replicating nanowires. <i>ACS Nano</i> , 2014 , 8, 10111-24	16.7	43
71	Materials chemistry: catalytic accordions. <i>Nature</i> , 2011 , 473, 40-1	50.4	43
70	Muscle-like Supramolecular Polymers: Integrated Motion from Thousands of Molecular Machines. <i>Angewandte Chemie</i> , 2012 , 124, 12672-12676	3.6	37
69	pH and light-controlled self-assembly of bistable [c2] daisy chain rotaxanes. <i>Chemical Communications</i> , 2015 , 51, 4212-5	5.8	35
68	Light-controlled morphologies of self-assembled triarylamine-fullerene conjugates. <i>ACS Nano</i> , 2015 , 9, 2760-72	16.7	35
67	Dynablocks: Structural Modulation of Responsive Combinatorial Self-Assemblies at Mesoscale. <i>Macromolecules</i> , 2009 , 42, 5913-5915	5.5	33
66	Experimental and theoretical methods for the analyses of dynamic combinatorial libraries. <i>New Journal of Chemistry</i> , 2014 , 38, 3336-3349	3.6	31
65	Generation of Dynamic Constitutional Diversity and Driven Evolution in Helical Molecular Strands under Lewis Acid Catalyzed Component Exchange. <i>Angewandte Chemie</i> , 2004 , 116, 5010-5014	3.6	30
64	Long-Range Energy Transport via Plasmonic Propagation in a Supramolecular Organic Waveguide. <i>Nano Letters</i> , 2016 , 16, 2800-5	11.5	28
63	Tandem Mukaiyama Michaelaldol reactions catalysed by samarium diiodide. <i>Tetrahedron</i> , 2001 , 57, 8989-8998	28	28
62	Electric-Field Modulation of Component Exchange in Constitutional Dynamic Liquid Crystals. <i>Angewandte Chemie</i> , 2006 , 118, 4735-4740	3.6	27
61	Supramolecular Electropolymerization. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15749-15753	16.4	27
60	Dynamic combinatorial self-replicating systems. <i>Topics in Current Chemistry</i> , 2012 , 322, 87-105		25
59	SANS, SAXS, and light scattering investigations of pH-responsive dynamic combinatorial mesophases. <i>Soft Matter</i> , 2011 , 7, 4787	3.6	22
58	Tandem Mukaiyama Michael-aldol reactions catalyzed by samarium diiodide. <i>Tetrahedron Letters</i> , 1998 , 39, 7845-7848	2	22
57	Control over nanostructures and associated mesomorphic properties of doped self-assembled triarylamine liquid crystals. <i>Chemistry - A European Journal</i> , 2015 , 21, 1938-48	4.8	21

56	New synthesis and reactions of [Sm(OTf) ₂ (DME) ₂], a salt-free samarium(II) triflate. <i>Tetrahedron Letters</i> , 1999 , 40, 3161-3164	2	21
55	Light-triggered self-assembly of triarylamine-based nanospheres. <i>Nanoscale</i> , 2012 , 4, 6748-51	7.7	19
54	Iodo bis bistrimethylsilylamido lanthanides. <i>Journal of Organometallic Chemistry</i> , 2001 , 628, 271-274	2.3	19
53	Supramolecular Organic Nanowires as Plasmonic Interconnects. <i>ACS Nano</i> , 2016 , 10, 2082-90	16.7	18
52	Enantioselective Diels-Alder reactions catalyzed by samarium iodo binaphthoxides. <i>Tetrahedron Letters</i> , 2000 , 41, 639-642	2	17
51	Hierarchical Self-Assembly of Supramolecular Muscle-Like Fibers. <i>Angewandte Chemie</i> , 2016 , 128, 713-717	3.6	16
50	The Hierarchical Self-Assembly of Charge Nanocarriers: A Highly Cooperative Process Promoted by Visible Light. <i>Angewandte Chemie</i> , 2010 , 122, 7128-7132	3.6	16
49	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> , 2008 , 120, 2267-2271	3.6	16
48	(R)-bis-Binaphthoxy iodo lanthanides as catalysts for Diels-Alder reactions. <i>Journal of Molecular Catalysis A</i> , 2003 , 200, 185-189		16
47	Mechanical behaviour of contractile gels based on light-driven molecular motors. <i>Nanoscale</i> , 2019 , 11, 5197-5202	7.7	16
46	Temperature Control of Sequential Nucleation-Growth Mechanisms in Hierarchical Supramolecular Polymers. <i>Chemistry - A European Journal</i> , 2019 , 25, 13008-13016	4.8	15
45	[c2]Daisy Chain Rotaxanes as Molecular Muscles. <i>CCS Chemistry</i> , 83-96	7.2	14
44	Core-shell inversion by pH modulation in dynamic covalent micelles. <i>Soft Matter</i> , 2014 , 10, 3926-37	3.6	13
43	Integration of molecular machines into supramolecular materials: actuation between equilibrium polymers and crystal-like gels. <i>Nanoscale</i> , 2017 , 9, 18456-18466	7.7	13
42	Hierarchical supramolecular structuring and dynamical properties of water soluble polyethylene glycol-perylene self-assemblies. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5718-28	3.6	13
41	(R)-Binaphthoxy diiodide lanthanides. <i>Journal of Organometallic Chemistry</i> , 1999 , 590, 248-252	2.3	13
40	Light Scattering Strategy for the Investigation of Time-Evolving Heterogeneous Supramolecular Self-Assemblies. <i>Physical Review Letters</i> , 2015 , 115, 085501	7.4	11
39	Gram scale synthesis of functionalized and optically pure Feringa's motors. <i>Tetrahedron</i> , 2017 , 73, 4874-4882	4.8	10

38	Supramolecular Electropolymerization. <i>Angewandte Chemie</i> , 2018 , 130, 15975-15979	3.6	10
37	Hydrogen-Bonded Multifunctional Supramolecular Copolymers in Water. <i>Langmuir</i> , 2015 , 31, 7738-48	4	7
36	Self-assembly of supramolecular triarylamine nanowires in mesoporous silica and biocompatible electrodes thereof. <i>Nanoscale</i> , 2016 , 8, 5605-11	7.7	7
35	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> , 2020 , 142, 1020-1028	16.4	7
34	Supramolecular Polymerization of Triarylamine-Based Macrocycles into Electroactive Nanotubes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6498-6504	16.4	7
33	Unsymmetric Bistable [c2]Daisy Chain Rotaxanes which Combine Two Types of Electroactive Stoppers. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 3421-3432	3.2	6
32	3D supramolecular self-assembly of [60]fullerene hexaadducts decorated with triarylamine molecules. <i>Chemical Communications</i> , 2018 , 54, 7657-7660	5.8	5
31	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> , 2021 , 27, 13468-13476	4.8	5
30	Self-assembly of benzene-tris(bis(p-benzyloxy)triphenylamine)carboxamide. <i>Comptes Rendus Chimie</i> , 2016 , 19, 117-122	2.7	4
29	Structural properties of contractile gels based on light-driven molecular motors: a small-angle neutron and X-ray study. <i>Soft Matter</i> , 2020 , 16, 4008-4023	3.6	3
28	Hybrid materials from tri-aryl amine organogelators and poly[vinyl chloride] networks. <i>Polymer</i> , 2020 , 207, 122814	3.9	3
27	Thermodynamic Selection of Supramolecular Nanomaterials from Dynamic Peptide Libraries. <i>Chem</i> , 2016 , 1, 826-829	16.2	3
26	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> , 2021 , 27, 13457-13467	4.8	3
25	Autopoietic Behavior of Dynamic Covalent Amphiphiles. <i>Chemistry - A European Journal</i> , 2018 , 24, 17125-17137	4.8	3
24	Covalently Trapped Triarylamine-Based Supramolecular Polymers. <i>Chemistry - A European Journal</i> , 2019 , 25, 14341-14348	4.8	2
23	Hierarchical formation of fibrillar and lamellar self-assemblies from guanosine-based motifs. <i>Journal of Nucleic Acids</i> , 2010 , 2010,	2.3	2
22	Optoregulated force application to cellular receptors using molecular motors		2
21	Learning from Embryo Development to Engineer Self-organizing Materials 2021 , 21-60		2

20	Optoregulated force application to cellular receptors using molecular motors. <i>Nature Communications</i> , 2021 , 12, 3580	17.4	2
19	Light-Driven Molecular Motors Boost the Selective Transport of Alkali Metal Ions through Phospholipid Bilayers. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15653-15660	16.4	2
18	Reactions in Dynamic Self-Assemblies 2012 ,		1
17	Design of Chemical Fuel-Driven Self-Assembly Processes 2021 , 191-213		1
16	Out-of-Equilibrium Threaded and Interlocked Molecular Structures 2021 , 305-336		1
15	Template-Directed Synthesis of Redox-Active [c3]Daisy Chain Rotaxanes. <i>CheM</i> , 2021 , 7, 11-13	16.2	1
14	Extraction of mechanical work from stimuli-responsive molecular systems and materials. <i>Trends in Chemistry</i> , 2021 ,	14.8	1
13	Photoswitchable Components to Drive Molecular Systems Away from Global Thermodynamic Minimum by Light ¹ 2021 , 275-304		0
12	Design of Active Nanosystems Incorporating Biomolecular Motors 2021 , 379-422		0
11	Spatially Addressed Supramolecular Nanowires: A Full Structural Characterization by GIWAXS. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 661-670	4.3	0
10	Modulation of the Molecular Structure of Tri-aryl Amine Fibrils in Hybrid Poly[vinyl chloride] Gel/Organogel Systems. <i>Macromolecules</i> , 2021 , 54, 8104-8111	5.5	0
9	Homodyne dynamic light scattering in supramolecular polymer solutions: anomalous oscillations in intensity correlation function. <i>Soft Matter</i> , 2020 , 16, 2971-2993	3.6	
8	Light-driven Rotary Molecular Motors for Out-of-Equilibrium Systems 2021 , 337-377		
7	Chemically Fueled, Transient Supramolecular Polymers 2021 , 165-190		
6	From Clocks to Synchrony: The Design of Bioinspired Self-Regulation in Chemical Systems 2021 , 61-90		
5	Kinetically Controlled Supramolecular Polymerization 2021 , 131-164		
4	De novo Design of Chemical Reaction Networks and Oscillators and Their Relation to Emergent Properties 2021 , 91-130		
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