Charles-AndrÃ© Fustin

List of Publications by Year
in descending order

119 papers	5,402 citations	81839 39 h-index	95218 68 g-index
122 all docs	122 docs citations	122 times ranked	6141 citing authors

#	Article	IF	Citations
1	Magneto-Responsive Nanocomposites with a Metalâ€“Ligand Supramolecular Matrix. Macromolecules, 2022, 55, 3936-3947.	2.2	9
2	Influence of Network Topology on the Viscoelastic Properties of Double Dynamics Hydrogels. Macromolecules, 2022, 55, 5058-5070.	2.2	6
3	Real-Time Fluctuations in Single-Molecule Rotaxane Experiments Reveal an Intermediate Weak Binding State during Shuttling. Journal of the American Chemical Society, 2021, 143, 2348-2352.	6.6	17
4	Dynamics and Structure of Metallo-supramolecular Polymers Based on Short Telechelic Precursors. Macromolecules, 2021, 54, 6400-6416.	2.2	13
5	Synthetic platform for mono-functionalised tridentate macrocycles as key precursors of mechanically-linked macromolecular systems. Organic Chemistry Frontiers, 2021, 8, 2383-2392.	2.3	2
6	Supramolecular Superparamagnetic Nanocomposites Based on a Magnetite-Filled Unentangled Terpyridine-Functionalized Polymer. Macromolecules, 2020, 53, 5361-5370.	2.2	5
7	Tunable Interpenetrating Polymer Network Hydrogels Based on Dynamic Covalent Bonds and Metalâ€“Ligand Bonds. Macromolecules, 2020, 53, 6956-6967.	2.2	51
8	Linear and Nonlinear Dynamic Behavior of Polymer Micellar Assemblies Connected by Metallo-Supramolecular Interactions. Polymers, 2019, 11, 1532.	2.0	3
9	Mechanisms of Crystalloid versus Colloid Osmosis across the Peritoneal Membrane. Journal of the American Society of Nephrology: JASN, 2018, 29, 1875-1886.	3.0	47
10	Integrating Proteins in Layer-by-Layer Assemblies Independently of their Electrical Charge. ACS Nano, 2018, 12, 8372-8381.	7.3	44
11	Control over the assembly and rheology of supramolecular networks via multi-responsive double hydrophilic copolymers. Polymer Chemistry, 2017, 8, 1527-1539.	1.9	19
12	Influence of a Single Catenane on the Solid-State Properties of Mechanically Linked Polymers. ACS Macro Letters, 2017, 6, 468-472.	2.3	15
13	Closer insight into the structure of moderate to densely branched comb polymers by combining modelling and linear rheological measurements. Soft Matter, 2017, 13, 1063-1073.	1.2	23
14	Decoding the linear viscoelastic properties of model telechelic metallo-supramolecular polymers. Journal of Rheology, 2017, 61, 1245-1262.	1.3	39
15	Proteinâ€“polyelectrolyte complexes to improve the biological activity of proteins in layer-by-layer assemblies. Nanoscale, 2017, 9, 17186-17192.	2.8	32
16	Photosensitizer localization in amphiphilic block copolymers controls photodynamic therapy efficacy. Nanoscale, 2017, 9, 11180-11186.	2.8	30
17	Synthesis and Rheology of Bulk Metallo-Supramolecular Polymers from Telechelic Entangled Precursors. Macromolecules, 2017, 50, 5165-5175.	2.2	35
18	A photocleavable stabilizer for the preparation of PHEMA nanogels by dispersion polymerization in supercritical carbon dioxide. Polymer Chemistry, 2017, 8, 581-591.	1.9	7

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19	Orthogonal Control of the Dynamics of Supramolecular Gels from Heterotelechelic Associating Polymers. ACS Macro Letters, 2016, 5, 1364-1368.	2.3	18
20	How Supramolecular Assemblies Control Dynamics of Associative Polymers: Toward a General Picture. Macromolecules, 2016, 49, 1890-1902.	2.2	54
21	Catenane-based mechanically-linked block copolymers. Chemical Communications, 2016, 52, 2149-2152.	2.2	13
22	Precise Control over the Rheological Behavior of Associating Stimuli-Responsive Block Copolymer Gels. Gels, 2015, 1, 235-255.	2.1	14
23	Transient Metallosupramolecular Networks Built from Entangled Melts of Poly(ethylene oxide). Macromolecules, 2015, 48, 3746-3755.	2.2	13
24	Stimuli-responsive behavior of micelles prepared from a poly(vinyl alcohol)-block-poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	2.6	16
25	Advances in Colloidal Assembly: The Design of Structure and Hierarchy in Two and Three Dimensions. Chemical Reviews, 2015, 115, 6265-6311.	23.0	630
26	Revealing the Supramolecular Nature of Side-Chain Terpyridine-Functionalized Polymer Networks. International Journal of Molecular Sciences, 2015, 16, 990-1007.	1.8	19
27	Local Molecular Dynamics and Heterogeneity in PEOâ€“NiCl2 Supramolecular Networks. Macromolecules, 2015, 48, 2290-2298.	2.2	6
28	Synthesis and Selfâ€Assembly of Terpyridine Endâ€Capped Poly(Nâ€isopropylacrylamide)â€blockâ€Poly(2â€(Dimethylamino)ethyl Methacrylate) Diblock Copolymers. Macromolecular Rapid Communications, 2015, 36, 610-615.	2.0	11
29	Double thermo-responsive hydrogels from poly(vinylcaprolactam) containing diblock and triblock copolymers. Polymer Chemistry, 2015, 6, 1856-1864.	1.9	21
30	Selfâ€assembly of a triblock terpolymer mediated by hydrogenâ€bonded complexes. Journal of Polymer Science Part A, 2015, 53, 459-467.	2.5	15
31	Controlling the melt rheology of linear entangled metallo-supramolecular polymers. Soft Matter, 2015, 11, 762-774.	1.2	31
32	Amphiphilic N-methylimidazole-functionalized diblock copolythiophenes. European Polymer Journal, 2014, 53, 206-214.	2.6	21
33	Thermo-responsive properties of metallo-supramolecular block copolymer micellar hydrogels. Soft Matter, 2014, 10, 3086.	1.2	29
34	Probing the mobility of catenane rings in single molecules. Chemical Science, 2014, 5, 1449.	3.7	50
35	Controlling the Cross-Linking Density of Supramolecular Hydrogels Formed by Heterotelechelic Associating Copolymers. Macromolecules, 2014, 47, 4514-4524.	2.2	26
36	Functionalized Stimuli-Responsive Nanocages from Photocleavable Block Copolymers. Macromolecules, 2014, 47, 183-190.	2.2	38

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37	Double thermoresponsive di- and triblock copolymers based on N-vinylcaprolactam and N-vinylpyrrolidone: synthesis and comparative study of solution behaviour. Polymer Chemistry, 2014, 5, 6534-6544.	1.9	37
38	Polymer Gels Constructed Through Metalâ€“Ligand Coordination. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 24-40.	1.9	59
39	Imidazolium-substituted ionic (co)polythiophenes: Compositional influence on solution behavior and thermal properties. Polymer, 2013, 54, 6293-6304.	1.8	27
40	Metallo-supramolecular hydrogels based on copolymers bearing terpyridine side-chain ligands. Soft Matter, 2013, 9, 2314.	1.2	38
41	One-pot controlled synthesis of double thermoresponsive N-vinylcaprolactam-based copolymers with tunable LCSTs. Polymer Chemistry, 2013, 4, 2575.	1.9	71
42	Poreâ€Functionalized Nanoporous Materials Derived from Block Copolymers. Macromolecular Rapid Communications, 2013, 34, 962-982.	2.0	37
43	Hydrogels with Dual Relaxation and Two-Step Gelâ€“Sol Transition from Heterotelechelic Polymers. Macromolecules, 2013, 46, 9134-9143.	2.2	38
44	Thermo-responsive metallo-supramolecular gels based on terpyridine end-functionalized amphiphilic diblock copolymers. Materials Research Society Symposia Proceedings, 2013, 1499, 1.	0.1	1
45	Structure of Metalloâ€Supramolecular Micellar Gels. Macromolecular Chemistry and Physics, 2013, 214, 1699-1709.	1.1	9
46	Tuning micellar morphology and rheological behaviour of metallo-supramolecular micellar gels. Soft Matter, 2012, 8, 4499.	1.2	22
47	Amine-functionalized nanoporous thin films from a poly(ethylene oxide)-block-polystyrene diblock copolymer bearing a photocleavable o-nitrobenzyl carbamate junction. Soft Matter, 2012, 8, 4486.	1.2	32
48	Functionalized Nanoporous Thin Films from Metallo-Supramolecular Diblock Copolymers. Langmuir, 2012, 28, 3018-3023.	1.6	30
49	Supramolecular Aqueous Gels Based on Terpyridineâ€Modified Pluronics. Macromolecular Chemistry and Physics, 2012, 213, 2253-2260.	1.1	6
50	Multiresponsive Micellar Systems from Photocleavable Block Copolymers. ACS Macro Letters, 2012, 1, 949-953.	2.3	36
51	Synthesis and selfâ€assembly of diblock copolymers bearing 2â€nitrobenzyl photocleavable side groups. Journal of Polymer Science Part A, 2012, 50, 599-608.	2.5	47
52	Temperatureâ€Responsive Aqueous Micelles From Terpyridine Endâ€Capped Poly(Nâ€Isopropylacrylamide)â€Blockâ€Polystyrene Diblock Copolymers. Macromolecular Rapid Communications, 2012, 33, 534-539.	2.0	22
53	Nanoporous thin films from ionically connected diblock copolymers. European Polymer Journal, 2012, 48, 940-944.	2.6	15
54	Functionalized Nanoporous Thin Films From Photocleavable Block Copolymers. Macromolecular Rapid Communications, 2012, 33, 199-205.	2.0	37

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55	Photo-induced micellization of block copolymers bearing 4,5-dimethoxy-2-nitrobenzyl side groups. Soft Matter, 2011, 7, 6891.	1.2	35
56	Synthesis of diblock copolymers bearing p-methoxyphenacyl side groups. Polymer Chemistry, 2011, 2, 2284.	1.9	18
57	Metallo-supramolecular block copolymer micelles: recent achievements. Soft Matter, 2011, 7, 3673.	1.2	17
58	Organometallic-Mediated Radical Polymerization: Unusual Route toward (Quasi-) Diblock Graft Copolymers Starting from a Mixture of Monomers of Opposed Reactivity. Macromolecules, 2011, 44, 4623-4631.	2.2	31
59	A single synthetic small molecule that generates force against a load. Nature Nanotechnology, 2011, 6, 553-557.	15.6	103
60	Rotaxaneâ€Based Mechanically Linked Block Copolymers. Angewandte Chemie - International Edition, 2011, 50, 9093-9096.	7.2	47
61	Selfâ€Assembly Behavior of Bis(terpyridine) and Metalloâ€bis(terpyridine) Pluronics in Dilute Aqueous Solutions. Macromolecular Chemistry and Physics, 2010, 211, 2323-2330.	1.1	24
62	Lightâ€Responsive Block Copolymers. Macromolecular Rapid Communications, 2010, 31, 1588-1607.	2.0	304
63	Macromol. Rapid Commun. 18/2010. Macromolecular Rapid Communications, 2010, 31, n/a-n/a.	2.0	0
64	Multiple micellar morphologies from triâ€•and tetrablock copoly(2â€oxazoline)s in binary waterâ€“ethanol mixtures. Journal of Polymer Science Part A, 2010, 48, 3095-3102.	2.5	17
65	A versatile strategy for the synthesis of block copolymers bearing a photocleavable junction. Polymer Chemistry, 2010, 1, 161-163.	1.9	120
66	Ordered nanoporous membranes based on diblock copolymers with high chemical stability and tunable separation properties. Journal of Materials Chemistry, 2010, 20, 4333.	6.7	74
67	Discovering new block terpolymer micellar morphologies. Chemical Communications, 2010, 46, 6455.	2.2	42
68	Metallo-supramolecular diblock copolymers based on heteroleptic cobalt(iii) and nickel(ii) bis-terpyridine complexes. Chemical Communications, 2010, 46, 1296.	2.2	54
69	Self-Assembly in Thin Films of Mixtures of Block Copolymers and Homopolymers Interacting by Hydrogen Bonds. Macromolecules, 2010, 43, 7734-7743.	2.2	35
70	Hybrid synthesis and processing schemes for highly-ordered polyaniline nanoarchitectures. , 2010, , .		0
71	Polymeric Micelles Induced by Interpolymer Complexation. Macromolecular Rapid Communications, 2009, 30, 1871-1888.	2.0	67
72	Solubility behavior of amphiphilic block and random copolymers based on 2â€ethylâ€2â€oxazoline and 2â€nonylâ€2â€oxazoline in binary waterâ€“ethanol mixtures. Journal of Polymer Science Part A, 2009, 47, 515-522.	2.5	76

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73	Polyelectrolyte complex nanoparticles from Nâ€carboxyethylchitosan and polycationic double hydrophilic diblock copolymers. Journal of Polymer Science Part A, 2009, 47, 2105-2117.	2.5	11
74	Are oâ€nitrobenzyl (meth)acrylate monomers polymerizable by controlledâ€radical polymerization?. Journal of Polymer Science Part A, 2009, 47, 6504-6513.	2.5	51
75	Dithioesters and trithiocarbonates monolayers on gold. Journal of Electron Spectroscopy and Related Phenomena, 2009, 172, 104-106.	0.8	27
76	Synthesis and pH-dependent micellization of diblock copolymer mixtures. Journal of Colloid and Interface Science, 2009, 329, 235-243.	5.0	45
77	Surface micellization of poly(2-oxazoline)s based copolymers containing a crystallizable block. Journal of Colloid and Interface Science, 2009, 332, 91-95.	5.0	7
78	Linear Viscoelastic Rheology of Moderately Entangled Telechelic Polybutadiene Temporary Networks. Macromolecules, 2009, 42, 6181-6192.	2.2	79
79	Self-Assembly and pH-Responsiveness of ABC Miktoarm Star Terpolymers. Langmuir, 2009, 25, 107-111.	1.6	43
80	Connecting micelles by metallo-supramolecular interactions: towards stimuli responsive hierarchical materials. Soft Matter, 2009, 5, 3409.	1.2	58
81	All-in-one strategy for the fabrication of antimicrobial biomimetic films on stainless steel. Journal of Materials Chemistry, 2009, 19, 4117.	6.7	75
82	A schizophrenic gradient copolymer: switching and reversing poly(2-oxazoline) micelles based on UCST and subtle solvent changes. Soft Matter, 2009, 5, 3590.	1.2	76
83	Self-organization of rodâ€“coil tri- and tetra-arm star metallo-supramolecular block copolymers in selective solvents. Soft Matter, 2009, 5, 2954.	1.2	28
84	Amphiphilic brushes from metallo-supramolecular block copolymers. Soft Matter, 2009, 5, 1460.	1.2	21
85	Highly Ordered Conjugated Polymer Nanoarchitectures with Three-Dimensional Structural Control. Nano Letters, 2009, 9, 2838-2843.	4.5	28
86	Selfâ€assembly of metalloâ€supramolecular block copolymers in thin films. Journal of Polymer Science Part A, 2008, 46, 4719-4724.	2.5	28
87	Amphiphilic gradient copolymers containing fluorinated 2â€phenylâ€2â€oxazolines: Microwaveâ€assisted oneâ€pot synthesis and selfâ€assembly in water. Journal of Polymer Science Part A, 2008, 46, 5859-5868.	2.5	37
88	Poly(dimethylsiloxane)â€Substituted 2,2â€²:6,2â€³â€Terpyridines: Synthesis and Characterization of New Amphiphilic Supramolecular Diblock Copolymers. Macromolecular Chemistry and Physics, 2008, 209, 1666-1672.	1.1	19
89	Synthesis of Poly(2-ethyl-2-oxazoline)-b-poly(styrene) Copolymers via a Dual Initiator Route Combining Cationic Ring-Opening Polymerization and Atom Transfer Radical Polymerization. Macromolecules, 2008, 41, 5210-5215.	2.2	58
90	Tuning block copolymer micelles by metalâ€“ligand interactions. Soft Matter, 2008, 4, 2278.	1.2	41

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91	Synthesis and Micellization of Coilâ^'Rodâ^'Coil Ruthenium(II) Terpyridine Assemblies. Macromolecules, 2008, 41, 8823-8831.	2.2	30
92	Advanced Polymer Architectures with Stimuli-Responsive Properties Starting from Inimers. Macromolecules, 2008, 41, 2593-2606.	2.2	28
93	Supramolecular Self-Assembled Ni(II), Fe(II), and Co(II) ABA Triblock Copolymers. Macromolecules, 2008, 41, 2771-2777.	2.2	61
94	Evaporation induced micellization of poly(2-oxazoline) multiblock copolymers on surfaces. Soft Matter, 2007, 3, 79-82.	1.2	16
95	Reorganization of Hydrogen-Bonded Block Copolymer Complexes. Langmuir, 2007, 23, 4618-4622.	1.6	19
96	One-Step Polymer Grafting from Silicon Nitride SPM Probes:Â From Isolated Chains to Brush Regime. Journal of the American Chemical Society, 2007, 129, 8410-8411.	6.6	22
97	Synthesis and Aqueous Micellization of Amphiphilic Tetrablock Ter- and Quarterpoly(2-oxazoline)s. Macromolecules, 2007, 40, 2837-2843.	2.2	69
98	Metallo-Supramolecular Block Copolymers. Advanced Materials, 2007, 19, 1665-1673.	11.1	162
99	Micellization of Poly(2â€oxazoline)â€Based Quasiâ€Diblock Copolymers on Surfaces. Macromolecular Chemistry and Physics, 2007, 208, 2026-2031.	1.1	13
100	Self-assembly of block copolymer complexes in organic solvents. Polymer, 2007, 48, 2306-2311.	1.8	30
101	Tuning the Hydrophilicity of Gold Nanoparticles Templated in Star Block Copolymers. Langmuir, 2006, 22, 6690-6695.	1.6	67
102	Supramolecular ABA Triblock Copolymers via a Polycondensation Approach:Â Synthesis, Characterization, and Micelle Formation. Macromolecules, 2006, 39, 1569-1576.	2.2	60
103	Dithioesters and Trithiocarbonates as Anchoring Groups for the â€œGrafting-Toâ€•Approach. Macromolecules, 2006, 39, 2729-2731.	2.2	118
104	Microwave-Assisted Cationic Ring-Opening Polymerization of 2-Oxazolines:Â A Powerful Method for the Synthesis of Amphiphilic Triblock Copolymers. Macromolecules, 2006, 39, 4719-4725.	2.2	131
105	First Insights into Electrografted Polymers by AFM-Based Force Spectroscopy. Macromolecules, 2006, 39, 8428-8433.	2.2	37
106	Study of the Influence of the Metalâ^'Ligand Complex on the Size of Aqueous Metallo-Supramolecular Micelles. Macromolecules, 2006, 39, 5484-5488.	2.2	40
107	Microwave-assisted synthesis and micellization behavior of soy-based copoly(2-oxazoline)s. Colloid and Polymer Science, 2006, 284, 1313-1318.	1.0	23
108	Nanoporous Thin Films from Self-Assembled Metallo- Supramolecular Block Copolymers. Advanced Materials, 2005, 17, 1162-1165.	11.1	97

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109	Structureâ^'Property Study of Diblock Copolymer Micelles:â€‰ Core and Corona Radius with Varying Composition and Degree of Polymerization. Macromolecules, 2005, 38, 10185-10191.	2.2	40
110	Solution and Solid-State Properties of Mechanically Linked Polycarbonates. Macromolecules, 2004, 37, 66-70.	2.2	26
111	Parameters Influencing the Templated Growth of Colloidal Crystals on Chemically Patterned Surfaces. Langmuir, 2004, 20, 9114-9123.	1.6	142
112	Combinatorial Synthesis of Star-Shaped Block Copolymers:â€‰ Hostâ^'Guest Chemistry of Unimolecular Reversed Micelles. Journal of the American Chemical Society, 2004, 126, 11517-11521.	6.6	113
113	Mechanically Linked Poly(ethylene terephthalate). Macromolecules, 2004, 37, 7884-7892.	2.2	29
114	Site-Selective Growth of Colloidal Crystals with Photonic Properties on Chemically Patterned Surfaces. Advanced Materials, 2003, 15, 1025-1028.	11.1	107
115	Mechanically Linked Polycarbonate. Journal of the American Chemical Society, 2003, 125, 2200-2207.	6.6	67
116	Photoemission study of pristine and potassium intercalated benzylic amide catenane films. Surface Science, 2001, 474, 37-46.	0.8	22
117	Physical Consequences of a Mechanically Interlocked Architecture: Benzylic Amide Catenane NH Stretching Vibrations as Sensitive Probes for Weakly Hydrogen-Bonding Environments. ChemPhysChem, 2000, 1, 97-100.	1.0	19
118	High-Frequency Vibrations of the Simplest Benzylic Amide [2]Catenane. Journal of Physical Chemistry A, 1998, 102, 5782-5788.	1.1	19
119	Resonant interaction of low energy electrons with intramolecular vibrations in solid C60. Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 115-119.	0.8	1