

# Emilie Moulin

## List of Publications by Year in descending order

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65  
papers

4,652  
citations

126708

33  
h-index

98622

67  
g-index

79  
all docs

79  
docs citations

79  
times ranked

5304  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Supramolecular self-assemblies as functional nanomaterials. <i>Nanoscale</i> , 2013, 5, 7098.   | 2.8  | 610       |
| 2  | Design of Collective Motions from Synthetic Molecular Switches, Rotors, and Motors. <i>Chemical Reviews</i> , 2020, 120, 310-433.   | 23.0 | 325       |
| 3  | Macroscopic contraction of a gel induced by the integrated motion of light-driven molecular motors. <i>Nature Nanotechnology</i> , 2015, 10, 161-165.   | 15.6 | 301       |
| 4  | Dynamic combinatorial chemistry as a tool for the design of functional materials and devices. <i>Chemical Society Reviews</i> , 2012, 41, 1031-1049.  | 18.7 | 249       |
| 5  | Muscle-like Supramolecular Polymers: Integrated Motion from Thousands of Molecular Machines. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12504-12508.                                  | 7.2  | 215       |
| 6  | Dual-light control of nanomachines that integrate motor and modulator subunits. <i>Nature Nanotechnology</i> , 2017, 12, 540-545.   | 15.6 | 190       |
| 7  | Light-triggered self-construction of supramolecular organic nanowires as metallic interconnects. <i>Nature Chemistry</i> , 2012, 4, 485-490.  | 6.6  | 164       |
| 8  | From Molecular Machines to Stimuli-Responsive Materials. <i>Advanced Materials</i> , 2020, 32, e1906036.  | 11.1 | 155       |
| 9  | Total Synthesis of Iejimalide A and Assessment of the Remarkable Actin-Depolymerizing Capacity of These Polyene Macrolides. <i>Journal of the American Chemical Society</i> , 2007, 129, 9150-9161.     | 6.6  | 143       |
| 10 | Advances in Supramolecular Electronics – From Randomly Self-Assembled Nanostructures to Addressable Self-Organized Interconnects. <i>Advanced Materials</i> , 2013, 25, 477-487.                        | 11.1 | 140       |
| 11 | Design, Synthesis, and Biological Evaluation of HSP90 Inhibitors Based on Conformational Analysis of Radicol and Its Analogues. <i>Journal of the American Chemical Society</i> , 2005, 127, 6999-7004. | 6.6  | 133       |
| 12 | Controlled Sol-Gel Transitions by Actuating Molecular Machine Based Supramolecular Polymers. <i>Journal of the American Chemical Society</i> , 2017, 139, 4923-4928.                                    | 6.6  | 117       |
| 13 | The Hierarchical Self-Assembly of Charge Nanocarriers: A Highly Cooperative Process Promoted by Visible Light. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6974-6978.                  | 7.2  | 114       |
| 14 | Bistable [2] Daisy Chain Rotaxanes as Reversible Muscle-like Actuators in Mechanically Active Gels. <i>Journal of the American Chemical Society</i> , 2017, 139, 14825-14828.                           | 6.6  | 112       |
| 15 | Triarylamine-Based Supramolecular Polymers: Structures, Dynamics, and Functions. <i>Accounts of Chemical Research</i> , 2019, 52, 975-983.  | 7.6  | 99        |
| 16 | Hierarchical Self-Assembly of Supramolecular Muscle-like Fibers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 703-707.  | 7.2  | 91        |
| 17 | Healable Supramolecular Polymers as Organic Metals. <i>Journal of the American Chemical Society</i> , 2014, 136, 11382-11388.   | 6.6  | 86        |
| 18 | Gram-Scale Synthesis of Iejimalide B. <i>Chemistry - A European Journal</i> , 2011, 17, 6964-6972.  | 1.7  | 72        |

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|----|--|-----|-----------|
| 19 | Columnar Self-Assemblies of Triarylaminates as Scaffolds for Artificial Biomimetic Channels for Ion and for Water Transport. <i>Journal of the American Chemical Society</i> , 2017, 139, 3721-3727. | 6.6 | 65        |
| 20 | Solution- and Solid-Phase Synthesis of Radicol (Monorden) and Pochonin C. <i>Chemistry - A European Journal</i> , 2005, 11, 4935-4952.   | 1.7 | 63        |
| 21 | Modular Asymmetric Synthesis of Pochonin C. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3467-3470.  | 7.2 | 61        |
| 22 | 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.             | 6.6 | 61        |
| 23 | Total Synthesis and Biological Evaluation of the Cytotoxic Resin Glycosides Ipomoeassin A and Analogues. <i>Chemistry - A European Journal</i> , 2009, 15, 9697-9706.                                | 1.7 | 59        |
| 24 | Supramolecular Self-Assembly and Radical Kinetics in Conducting Self-Replicating Nanowires. <i>ACS Nano</i> , 2014, 8, 10111-10124.  | 7.3 | 55        |
| 25 | Concise Synthesis of Pochonin A, an HSP90 Inhibitor. <i>Organic Letters</i> , 2005, 7, 5637-5639.  | 2.4 | 50        |
| 26 | Resorcylic acid lactones: A pluripotent scaffold with therapeutic potential. <i>Comptes Rendus Chimie</i> , 2008, 11, 1306-1317.   | 0.2 | 45        |
| 27 | pH and light-controlled self-assembly of bistable [c2] daisy chain rotaxanes. <i>Chemical Communications</i> , 2015, 51, 4212-4215.  | 2.2 | 44        |
| 28 | Diversity-Oriented Synthesis of Pochonins and Biological Evaluation against a Panel of Kinases. <i>Chemistry - A European Journal</i> , 2006, 12, 8819-8834.   | 1.7 | 40        |
| 29 | Light-Controlled Morphologies of Self-Assembled Triarylamine-Fullerene Conjugates. <i>ACS Nano</i> , 2015, 9, 2760-2772.   | 7.3 | 39        |
| 30 | Supramolecular Electropolymerization. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15749-15753.  | 7.2 | 38        |
| 31 | 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.            | 6.6 | 37        |
| 32 | Experimental and theoretical methods for the analyses of dynamic combinatorial libraries. <i>New Journal of Chemistry</i> , 2014, 38, 3336-3349.   | 1.4 | 35        |
| 33 | Long-Range Energy Transport via Plasmonic Propagation in a Supramolecular Organic Waveguide. <i>Nano Letters</i> , 2016, 16, 2800-2805.  | 4.5 | 35        |
| 34 | Temperature Control of Sequential Nucleation-Growth Mechanisms in Hierarchical Supramolecular Polymers. <i>Chemistry - A European Journal</i> , 2019, 25, 13008-13016.                               | 1.7 | 28        |
| 35 | [c2]Daisy Chain Rotaxanes as Molecular Muscles. <i>CCS Chemistry</i> , 0, , 83-96.   | 4.6 | 28        |
| 36 | Dynamic Combinatorial Self-Replicating Systems. <i>Topics in Current Chemistry</i> , 2011, 322, 87-105.  | 4.0 | 27        |

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|----|--|-----|-----------|
| 37 | Light-Driven Molecular Whirligig. <i>Journal of the American Chemical Society</i> , 2022, 144, 9845-9852.  | 6.6 | 27        |
| 38 | Supramolecular Polymerization of Triarylamine-Based Macrocycles into Electroactive Nanotubes. <i>Journal of the American Chemical Society</i> , 2021, 143, 6498-6504.  | 6.6 | 26        |
| 39 | Control over Nanostructures and Associated Mesomorphic Properties of Doped Self-Assembled Triarylamine Liquid Crystals. <i>Chemistry - A European Journal</i> , 2015, 21, 1938-1948.   | 1.7 | 24        |
| 40 | Synthesis and evaluation of an lejimalide-archazolid chimera. <i>Tetrahedron</i> , 2010, 66, 6421-6428.  | 1.0 | 23        |
| 41 | Molecular Editing and Assessment of the Cytotoxic Properties of lejimalide and Progeny. <i>Chemistry - A European Journal</i> , 2011, 17, 6973-6984.   | 1.7 | 23        |
| 42 | Mechanical behaviour of contractile gels based on light-driven molecular motors. <i>Nanoscale</i> , 2019, 11, 5197-5202.   | 2.8 | 23        |
| 43 | Light-triggered self-assembly of triarylamine-based nanospheres. <i>Nanoscale</i> , 2012, 4, 6748.   | 2.8 | 21        |
| 44 | Supramolecular Organic Nanowires as Plasmonic Interconnects. <i>ACS Nano</i> , 2016, 10, 2082-2090.  | 7.3 | 20        |
| 45 | Gram scale synthesis of functionalized and optically pure Feringa's motors. <i>Tetrahedron</i> , 2017, 73, 4874-4882.  | 1.0 | 17        |
| 46 | Extraction of mechanical work from stimuli-responsive molecular systems and materials. <i>Trends in Chemistry</i> , 2021, 3, 926-942.  | 4.4 | 16        |
| 47 | Integration of molecular machines into supramolecular materials: actuation between equilibrium polymers and crystal-like gels. <i>Nanoscale</i> , 2017, 9, 18456-18466.  | 2.8 | 15        |
| 48 | Supramolecular Electropolymerization. <i>Angewandte Chemie</i> , 2018, 130, 15975-15979.   | 1.6 | 14        |
| 49 | Hierarchical supramolecular structuring and dynamical properties of water soluble polyethylene glycol- <i>perylene</i> self-assemblies. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5718.   | 1.3 | 13        |
| 50 | Light Scattering Strategy for the Investigation of Time-Evolving Heterogeneous Supramolecular Self-Assemblies. <i>Physical Review Letters</i> , 2015, 115, 085501.   | 2.9 | 13        |
| 51 | 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. | 1.7 | 13        |
| 52 | Unsymmetric Bistable [2]Daisy Chain Rotaxanes which Combine Two Types of Electroactive Stoppers. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3421-3432.   | 1.2 | 11        |
| 53 | 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.                  | 1.7 | 10        |
| 54 | 3D supramolecular self-assembly of [60]fullerene hexaadducts decorated with triarylamine molecules. <i>Chemical Communications</i> , 2018, 54, 7657-7660.  | 2.2 | 8         |

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|----|---|------|-----------|
| 55 | 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.                            | 2.2  | 8         |
| 56 | Hydrogen-Bonded Multifunctional Supramolecular Copolymers in Water. <i>Langmuir</i> , 2015, 31, 7738-7748.  | 1.6  | 7         |
| 57 | Self-assembly of supramolecular triarylamine nanowires in mesoporous silica and biocompatible electrodes thereof. <i>Nanoscale</i> , 2016, 8, 5605-5611.                                      | 2.8  | 7         |
| 58 | Hybrid materials from tri-aryl amine organogelators and poly[vinyl chloride] networks. <i>Polymer</i> , 2020, 207, 122814.  | 1.8  | 7         |
| 59 | Evidence by neutron diffraction of molecular compounds in triarylamine tris-amide organogels and in their hybrid thermoreversible gels with PVC. <i>Soft Matter</i> , 2022, 18, 2851-2857.    | 1.2  | 7         |
| 60 | 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.                            | 1.2  | 6         |
| 61 | Covalently Trapped Triarylamine-Based Supramolecular Polymers. <i>Chemistry - A European Journal</i> , 2019, 25, 14341-14348.   | 1.7  | 5         |
| 62 | A move in the right direction. <i>Nature Nanotechnology</i> , 2014, 9, 331-332.   | 15.6 | 4         |
| 63 | Self-assembly of benzene-tris(bis(p-benzyloxy)triphenylamine)carboxamide. <i>Comptes Rendus Chimie</i> , 2016, 19, 117-122.   | 0.2  | 4         |
| 64 | Effect of solvent isomers on the gelation properties of tri-aryl amine organogels and their hybrid thermoreversible gels with poly[vinyl chloride]. <i>Soft Matter</i> , 2022, 18, 5575-5584. | 1.2  | 2         |
| 65 | Homodyne dynamic light scattering in supramolecular polymer solutions: anomalous oscillations in intensity correlation function. <i>Soft Matter</i> , 2020, 16, 2971-2993.                    | 1.2  | 1         |