J JÂ l M Cornelissen

List of Publications by Year in descending order

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138 papers 11,355 citations

54 h-index 29157 104 g-index

146 all docs

146 docs citations

146 times ranked 11308 citing authors

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Self-Assembled Nanoreactors. Chemical Reviews, 2005, 105, 1445-1490. | 47.7 | 1,395 |
| 2 | Chiral Architectures from Macromolecular Building Blocks. Chemical Reviews, 2001, 101, 4039-4070. | 47.7 | 857 |
| 3 | Conversion of light into macroscopic helical motion. Nature Chemistry, 2014, 6, 229-235. | 13.6 | 646 |
| 4 | A virus-based single-enzyme nanoreactor. Nature Nanotechnology, 2007, 2, 635-639. | 31.5 | 406 |
| 5 | Design and Synthesis of N-Maleimido-Functionalized Hydrophilic Polymers via Copper-Mediated Living Radical Polymerization: Â A Suitable Alternative to PEGylation Chemistry. Journal of the American Chemical Society, 2005, 127, 2966-2973. | 13.7 | 385 |
| 6 | Virus-based nanocarriers for drug delivery. Advanced Drug Delivery Reviews, 2012, 64, 811-825. | 13.7 | 374 |
| 7 | A Polymersome Nanoreactor with Controllable Permeability Induced by Stimuliâ€Responsive Block Copolymers. Advanced Materials, 2009, 21, 2787-2791. | 21.0 | 320 |
| 8 | A Threeâ€Enzyme Cascade Reaction through Positional Assembly of Enzymes in a Polymersome Nanoreactor. Chemistry - A European Journal, 2009, 15, 1107-1114. | 3.3 | 319 |
| 9 | beta -Helical Polymers from Isocyanopeptides. Science, 2001, 293, 676-680. | 12.6 | 290 |
| 10 | Polymersome Stomatocytes: Controlled Shape Transformation in Polymer Vesicles. Journal of the American Chemical Society, 2010, 132, 12522-12524. | 13.7 | 199 |
| 11 | Controlled Encapsulation of Multiple Proteins in Virus Capsids. Journal of the American Chemical Society, 2009, 131, 17771-17773. | 13.7 | 191 |
| 12 | Metalâ€Free Triazole Formation as a Tool for Bioconjugation. ChemBioChem, 2007, 8, 1504-1508. | 2.6 | 185 |
| 13 | Self-assembly and optically triggered disassembly of hierarchical dendron–virus complexes. Nature Chemistry, 2010, 2, 394-399. | 13.6 | 178 |
| 14 | Self-Assembled Architectures from Biohybrid Triblock Copolymers. Journal of the American Chemical Society, 2007, 129, 2327-2332. | 13.7 | 170 |
| 15 | Catalytic capsids: the art of confinement. Chemical Science, 2011, 2, 358-362. | 7.4 | 147 |
| 16 | Polymeric Monosaccharide Receptors Responsive at Neutral pH. Journal of the American Chemical Society, 2009, 131, 13908-13909. | 13.7 | 143 |
| 17 | Virus-like Particles Templated by DNA Micelles: A General Method for Loading Virus Nanocarriers. Journal of the American Chemical Society, 2010, 132, 7834-7835. | 13.7 | 130 |
| 18 | Enzymes containing porous polymersomes as nano reaction vessels for cascade reactions. Organic and Biomolecular Chemistry, 2008, 6, 4315. | 2.8 | 126 |

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| 19 | Encapsulation of Phthalocyanine Supramolecular Stacks into Virus-like Particles. Journal of the American Chemical Society, 2011, 133, 6878-6881. | 13.7 | 122 |
| 20 | Synthesis of Polymerâ^'Biohybrids: From Small to Giant Surfactants. Accounts of Chemical Research, 2009, 42, 681-692. | 15.6 | 119 |
| 21 | Viruses and protein cages as nanocontainers and nanoreactors. Journal of Materials Chemistry, 2009, 19, 2274. | 6.7 | 115 |
| 22 | Macromolecular multi-chromophoric scaffolding. Chemical Society Reviews, 2010, 39, 1576. | 38.1 | 113 |
| 23 | Monodisperse polymer–virus hybrid nanoparticles. Organic and Biomolecular Chemistry, 2007, 5, 54-57. | 2.8 | 109 |
| 24 | High Shape Persistence in Single Polymer Chains Rigidified with Lateral Hydrogen Bonded Networks. Macromolecules, 2002, 35, 5290-5294. | 4.8 | 104 |
| 25 | Helical Polymer-Anchored Porphyrin Nanorods. Chemistry - A European Journal, 2003, 9, 1775-1781. | 3.3 | 103 |
| 26 | Designing Two Self-Assembly Mechanisms into One Viral Capsid Protein. Journal of the American Chemical Society, 2012, 134, 18506-18509. | 13.7 | 101 |
| 27 | Self-Sorting of Foreign Proteins in a Bacterial Nanocompartment. Journal of the American Chemical Society, 2014, 136, 3828-3832. | 13.7 | 100 |
| 28 | Assembling Enzymatic Cascade Pathways inside Virus-Based Nanocages Using Dual-Tasking Nucleic Acid Tags. Journal of the American Chemical Society, 2017, 139, 1512-1519. | 13.7 | 98 |
| 29 | Single-Step Azide Introduction in Proteins via an Aqueous Diazo Transfer. Bioconjugate Chemistry, 2009, 20, 20-23. | 3.6 | 97 |
| 30 | Block copolymer vesicles. Pure and Applied Chemistry, 2004, 76, 1309-1319. | 1.9 | 93 |
| 31 | Polymersome Nanoreactors for Enzymatic Ring-Opening Polymerization. Biomacromolecules, 2007, 8, 3723-3728. | 5.4 | 88 |
| 32 | Application of Metalâ€Free Triazole Formation in the Synthesis of Cyclic RGD–DTPA Conjugates. ChemBioChem, 2008, 9, 1805-1815. | 2.6 | 87 |
| 33 | The Relationship between Nanoscale Architecture and Function in Photovoltaic Multichromophoric Arrays as Visualized by Kelvin Probe Force Microscopy. Journal of the American Chemical Society, 2008, 130, 14605-14614. | 13.7 | 85 |
| 34 | Reactions inside nanoscale protein cages. Nanoscale, 2011, 3, 2376. | 5.6 | 85 |
| 35 | Protein-Polymer Hybrid Amphiphiles. Angewandte Chemie - International Edition, 2001, 40, 4732-4734. | 13.8 | 82 |
| 36 | A Block Copolymer for Functionalisation of Polymersome Surfaces. Macromolecular Rapid Communications, 2008, 29, 321-325. | 3.9 | 81 |

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| 37 | Protein–Polymer Hybrid Amphiphiles. Advanced Materials, 2008, 20, 3953-3957. | 21.0 | 79 |
| 38 | Role of Electrostatics in the Assembly Pathway of a Single-Stranded RNA Virus. Journal of Virology, 2014, 88, 10472-10479. | 3.4 | 79 |
| 39 | Synthesis and Self-Assembly of Rod-Rod Hybrid Poly(\hat{l}^3 -benzylL-glutamate)-block-Polyisocyanide Copolymers. Angewandte Chemie - International Edition, 2005, 44, 4349-4352. | 13.8 | 78 |
| 40 | Hierarchical Self-Assembly and Optical Disassembly for Controlled Switching of Magnetoferritin Nanoparticle Magnetism. ACS Nano, 2011, 5, 6394-6402. | 14.6 | 75 |
| 41 | Structural Characterization of Native and Modified Encapsulins as Nanoplatforms for <i>in Vitro</i> Catalysis and Cellular Uptake. ACS Nano, 2017, 11, 12796-12804. | 14.6 | 71 |
| 42 | Electronic Transport Properties of Ensembles of Peryleneâ€Substituted Polyâ€isocyanopeptide Arrays. Advanced Functional Materials, 2008, 18, 3947-3955. | 14.9 | 70 |
| 43 | Electroformed Giant Vesicles from Thiophene-Containing Rodâ°Coil Diblock Copolymers. Macromolecules, 2004, 37, 4736-4739. | 4.8 | 67 |
| 44 | Viral capsids as templates for the production of monodisperse Prussian blue nanoparticles. Chemical Communications, 2008, , 1542. | 4.1 | 67 |
| 45 | Controlled Integration of Polymers into Viral Capsids. Biomacromolecules, 2009, 10, 3141-3147. | 5.4 | 66 |
| 46 | Cascade Reactions in an Allâ€Enzyme Nanoreactor. Chemistry - A European Journal, 2009, 15, 12600-12603. | 3.3 | 65 |
| 47 | "Helterâ€Skelterâ€Like―Perylene Polyisocyanopeptides. Chemistry - A European Journal, 2009, 15, 2536-25- | 473.3 | 64 |
| 48 | A clamp-like biohybrid catalyst for DNA oxidation. Nature Chemistry, 2013, 5, 945-951. | 13.6 | 64 |
| 49 | Assembly and Mechanical Properties of the Cargo-Free and Cargo-Loaded Bacterial Nanocompartment Encapsulin. Biomacromolecules, 2016, 17, 2522-2529. | 5.4 | 62 |
| 50 | Thermoresponsive giant biohybrid amphiphiles. Polymer Chemistry, 2011, 2, 333-340. | 3.9 | 61 |
| 51 | Predicting the Loading of Virus-Like Particles with Fluorescent Proteins. Biomacromolecules, 2014, 15, 558-563. | 5.4 | 60 |
| 52 | Nitroarene Reduction by a Virus Protein Cage Based Nanoreactor. ACS Catalysis, 2016, 6, 3084-3091. | 11.2 | 58 |
| 53 | Electrostatic self-assembly of virus–polymer complexes. Journal of Materials Chemistry, 2011, 21, 2112-2117. | 6.7 | 57 |
| 54 | Synthesis and characterization of polyisocyanides derived from alanine and glycine dipeptides. Journal of Polymer Science Part A, 2001, 39, 4255-4264. | 2.3 | 54 |

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| 55 | Silver Nanoarrays Templated by Block Copolymers of Carbosilane Dendrimers and Polyisocyanopeptides. Advanced Materials, 2002, 14, 489-492. | 21.0 | 54 |
| 56 | Selfâ€Assembly of Proteins: Towards Supramolecular Materials. Chemistry - A European Journal, 2016, 22, 15570-15582. | 3.3 | 54 |
| 57 | Using viruses as nanomedicines. British Journal of Pharmacology, 2014, 171, 4001-4009. | 5.4 | 53 |
| 58 | Generation-Dependent Templated Self-Assembly of Biohybrid Protein Nanoparticles around Photosensitizer Dendrimers. Nano Letters, 2015, 15, 1245-1251. | 9.1 | 52 |
| 59 | Self-assembly and characterization of small and monodisperse dye nanospheres in a protein cage. Chemical Science, 2014, 5, 575-581. | 7.4 | 50 |
| 60 | Temperatureâ€6witchable Assembly of Supramolecular Virus–Polymer Complexes. Advanced Functional Materials, 2011, 21, 2012-2019. | 14.9 | 49 |
| 61 | Structural Transitions and Energy Landscape for Cowpea Chlorotic Mottle Virus Capsid Mechanics from Nanomanipulation inÂVitro and in Silico. Biophysical Journal, 2013, 105, 1893-1903. | 0.5 | 47 |
| 62 | Post-modification of helical dipeptido polyisocyanides using the  click' reaction. Journal of Materials Chemistry, 2008, 18, 5615. | 6.7 | 46 |
| 63 | Monitoring Proteinâ^'Polymer Conjugation by a Fluorogenic Cu(I)-Catalyzed Azideâ^'Alkyne 1,3-Dipolar Cycloaddition. Bioconjugate Chemistry, 2009, 20, 1129-1138. | 3.6 | 46 |
| 64 | Encapsulation of DNAâ€Templated Chromophore Assemblies within Virus Protein Nanotubes. Angewandte Chemie - International Edition, 2010, 49, 5335-5338. | 13.8 | 46 |
| 65 | Conformational analysis of dipeptide-derived polyisocyanides. Journal of Polymer Science Part A, 2003, 41, 1725-1736. | 2.3 | 44 |
| 66 | Templated Formation of Luminescent Virus-like Particles by Tailor-Made Pt(II) Amphiphiles. Journal of the American Chemical Society, 2018, 140, 2355-2362. | 13.7 | 42 |
| 67 | Synthesis, characterisation and chiroptical properties of â€~click'able polyisocyanopeptides. Journal of Materials Chemistry, 2007, 17, 1876-1884. | 6.7 | 41 |
| 68 | CCMV capsid formation induced by a functional negatively charged polymer. Organic and Biomolecular Chemistry, 2009, 7, 4685. | 2.8 | 41 |
| 69 | Biocatalytic oxidation by chloroperoxidase from Caldariomyces fumago in polymersome nanoreactors. Organic and Biomolecular Chemistry, 2009, 7, 4604. | 2.8 | 39 |
| 70 | Selfâ€Assembled Cage‣ike Protein Structures. ChemPhysChem, 2015, 16, 911-918. | 2.1 | 39 |
| 71 | Polyisocyanides Derived from Tripeptides of Alanine. Chemistry - A European Journal, 2007, 13, 950-960. | 3.3 | 38 |
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| 73 | Metal Ion-Induced Self-Assembly of a Multi-Responsive Block Copolypeptide into Well-Defined Nanocapsules. Small, 2016, 12, 2476-2483. | 10.0 | 37 |
| 74 | Protein Cages as Containers for Gold Nanoparticles. Journal of Physical Chemistry B, 2016, 120, 6352-6357. | 2.6 | 37 |
| 75 | Self-assembly triggered by self-assembly: Optically active, paramagnetic micelles encapsulated in protein cage nanoparticles. Journal of Inorganic Biochemistry, 2014, 136, 140-146. | 3 . 5 | 36 |
| 76 | Diastereopure Fe(II) and Zn(II) Complexes Derived from a TridentateN,N‴,N-Bis(methyl-l-prolinate)-Substituted Pyridine Ligand. Inorganic Chemistry, 2006, 45, 4214-4227. | 4.0 | 34 |
| 77 | A hydrogel-based enzyme-loaded polymersome reactor. Nanoscale, 2010, 2, 709. | 5.6 | 34 |
| 78 | Polymorphic assembly of virus-capsid proteins around DNA and the cellular uptake of the resulting particles. Journal of Controlled Release, 2019, 307, 342-354. | 9.9 | 32 |
| 79 | Synthesis, Characterization, and Folding Behavior of \hat{l}^2 -Amino Acid Derived Polyisocyanides. Chemistry - A European Journal, 2006, 12, 2778-2786. | 3.3 | 28 |
| 80 | Hydrogen bonding and chemical shift assignments in carbazole functionalized isocyanides from solid-state NMR and first-principles calculations. Physical Chemistry Chemical Physics, 2011, 13, 13082. | 2.8 | 28 |
| 81 | Labelling Bacterial Nanocages with Photoâ€switchable Fluorophores. ChemPhysChem, 2016, 17, 1815-1818. | 2.1 | 28 |
| 82 | Synthesis, Characterization, and Surface Initiated Polymerization of Carbazole Functionalized Isocyanides. Chemistry of Materials, 2010, 22, 2597-2607. | 6.7 | 27 |
| 83 | Complex Assembly Behavior During the Encapsulation of Green Fluorescent Protein Analogs in Virus Derived Protein Capsules. Macromolecular Bioscience, 2010, 10, 539-545. | 4.1 | 26 |
| 84 | Synthesis and Characterization of Surface-Initiated Helical Polyisocyanopeptide Brushes. Macromolecules, 2008, 41, 1945-1951. | 4.8 | 25 |
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| 86 | Determination of the helical sense in alanine based polyisocyanides. Macromolecular Chemistry and Physics, 2002, 203, 1625-1630. | 2.2 | 23 |
| 87 | Phototriggered cargo release from virus-like assemblies. Faraday Discussions, 2013, 166, 47. | 3.2 | 23 |
| 88 | Chiroptical properties of a chiral-substituted poly(thienylene vinylene). Acta Polymerica, 1998, 49, 471-476. | 0.9 | 22 |
| 89 | Cysteineâ€Containing Polyisocyanides as Versatile Nanoplatforms for Chromophoric and Bioscaffolding. Chemistry - A European Journal, 2010, 16, 6176-6186. | 3.3 | 22 |
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| 91 | Quantum dot encapsulation in virus-like particles with tuneable structural properties and low toxicity. RSC Advances, 2017, 7, 38110-38118. | 3.6 | 21 |
| 92 | Immobilization of catalytic virus-like particles in a flow reactor. Chemical Communications, 2017, 53, 7632-7634. | 4.1 | 20 |
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| 97 | Sequential Energy and Electron Transfer in Polyisocyanopeptide-Based Multichromophoric Arrays. Journal of Physical Chemistry B, 2011, 115, 1590-1600. | 2.6 | 16 |
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| 102 | Oligonucleotide Lengthâ€Dependent Formation of Virus‣ike Particles. Chemistry - A European Journal, 2018, 24, 7456-7463. | 3.3 | 15 |
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| 104 | Nanotechnological Applications Based on Bacterial Encapsulins. Nanomaterials, 2021, 11, 1467. | 4.1 | 15 |
| 105 | Polymeric nanomedicines targeting hematological malignancies. Journal of Controlled Release, 2021, 337, 571-588. | 9.9 | 15 |
| 106 | Synthesis and aggregation behavior of biohybrid amphiphiles composed of a tripeptidic head group and a polystyrene tail. Soft Matter, 2009, 5, 1692. | 2.7 | 14 |
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| 109 | Highly Sensitive Protein Detection by Asymmetric Mach–Zehnder Interferometry for Biosensing Applications. ACS Applied Bio Materials, 2020, 3, 4566-4572. | 4.6 | 14 |
| 110 | Water soluble azido polyisocyanopeptides as functional βâ€sheet mimics. Journal of Polymer Science Part A, 2009, 47, 4150-4164. | 2.3 | 13 |
| 111 | Clustered Nanocarriers: The Effect of Size on the Clustering of CCMV Virusâ€Like Particles With Soft Macromolecules. Macromolecular Bioscience, 2015, 15, 98-110. | 4.1 | 13 |
| 112 | Compartmentalized Thin Films with Customized Functionality via Interfacial Crossâ€linking of Protein Cages. Advanced Functional Materials, 2018, 28, 1801574. | 14.9 | 13 |
| 113 | Protecting Encapsulin Nanoparticles with Cysteine-Knot Miniproteins. Molecular Pharmaceutics, 2018, 15, 2991-2996. | 4.6 | 13 |
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| 115 | HER2-Specific Reduction-Sensitive Immunopolymersomes with High Loading of Epirubicin for Targeted Treatment of Ovarian Tumor. Biomacromolecules, 2019, 20, 3855-3863. | 5.4 | 13 |
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| 118 | Direct Backbone Structure Determination of Polyisocyanodipeptide Using Solid-State Nuclear Magnetic Resonance. Macromolecules, 2012, 45, 2209-2218. | 4.8 | 12 |
| 119 | Elucidating the Thermodynamic Driving Forces of Polyanion-Templated Virus-like Particle Assembly. Journal of Physical Chemistry B, 2019, 123, 9733-9741. | 2.6 | 12 |
| 120 | Nanoscale organization of proteins via block copolymer lithography and non-covalent bioconjugation. Journal of Materials Chemistry B, 2013, 1, 3026. | 5.8 | 11 |
| 121 | Fluorescent nanodiamonds encapsulated by <i>Cowpea Chlorotic Mottle Virus</i> (CCMV) proteins for intracellular 3D-trajectory analysis. Journal of Materials Chemistry B, 2021, 9, 5621-5627. | 5.8 | 11 |
| 122 | Hierarchical transfer of stereochemical information in synthetic macromolecules. Pure and Applied Chemistry, 2002, 74, 2021-2030. | 1.9 | 10 |
| 123 | Sorting Catalytically Active Polymersome Nanoreactors by Flow Cytometry. Small, 2009, 5, 1138-1143. | 10.0 | 9 |
| 124 | Amineâ€Reactive PEGylated Nanoparticles for Potential Bioconjugation. Macromolecular Rapid Communications, 2011, 32, 19-24. | 3.9 | 9 |
| 125 | Delivery of MicroRNAs by plant virus-based nanoparticles to functionally alter the osteogenic differentiation of human mesenchymal stem cells. Chinese Chemical Letters, 2023, 34, 107448. | 9.0 | 9 |
| 126 | Construction of phthalocyanineâ€terminated polystyrene nanoarchitectures. Journal of Physical Organic Chemistry, 2012, 25, 586-591. | 1.9 | 8 |

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| 127 | CCMV-Based Enzymatic Nanoreactors. Methods in Molecular Biology, 2018, 1776, 237-247. | 0.9 | 8 |
| 128 | Optimizing fluorophore density for single virus counting: a photophysical approach. Methods and Applications in Fluorescence, 2021, 9, 025001. | 2.3 | 8 |
| 129 | Virus removal from semen with a pinched flow fractionation microfluidic chip. Lab on A Chip, 2021, 21, 4477-4486. | 6.0 | 8 |
| 130 | Construction of core-shell hybrid nanoparticles templated by virus-like particles. RSC Advances, 2017, 7, 56328-56334. | 3.6 | 6 |
| 131 | Packing polymers in protein cages. Nature Chemistry, 2012, 4, 775-777. | 13.6 | 4 |
| 132 | Self-Assembly of Viral Capsid Proteins Driven by Compressible Nanobubbles. Journal of Physical Chemistry Letters, 2020, 11, 10421-10424. | 4.6 | 4 |
| 133 | Induced Förster resonance energy transfer by encapsulation of DNA-scaffold based probes inside a plant virus based protein cage. Journal of Physics Condensed Matter, 2018, 30, 184002. | 1.8 | 3 |
| 134 | Photoprogramming Allostery in Human Serum Albumin. Bioconjugate Chemistry, 2018, 29, 2215-2224. | 3.6 | 3 |
| 135 | Carbazole Functionalized Isocyanide Brushes in Heterojunction Photovoltaic Devices. Journal of Nanoscience and Nanotechnology, 2012, 12, 503-507. | 0.9 | 2 |
| 136 | Exploiting Complex Fluorophore Interactions to Monitor Virus Capsid Disassembly. Molecules, 2021, 26, 5750. | 3.8 | 2 |
| 137 | Silver Nanoarrays Templated by Block Copolymers of Carbosilane Dendrimers and Polyisocyanopeptides. Advanced Materials, 2002, 14, 489. | 21.0 | 1 |
| 138 | Quantification of the Retention and Disassembly of Virus Particles by a PEI-Functionalized Microfiltration Membrane. ACS Applied Polymer Materials, 2022, 4, 5173-5179. | 4.4 | 0 |