# Colin V Bonduelle

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5848083/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 49 papers | 2,206 citations | 304743 — 22 h-index | 214800 — 47 g-index |
| 52 all docs | 52 docs citations | 52 times ranked | 2816 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Multicompartmentalized polymeric systems: towards biomimetic cellular structure and function. Chemical Society Reviews, 2013, 42, 512-529. | 38.1 | 445 |
| 2 | Biologically Active Polymersomes from Amphiphilic Glycopeptides. Journal of the American Chemical Society, 2012, 134, 119-122. | 13.7 | 222 |
| 3 | Secondary structures of synthetic polypeptide polymers. Polymer Chemistry, 2018, 9, 1517-1529. | 3.9 | 155 |
| 4 | Aqueous Ringâ€Opening Polymerizationâ€Induced Selfâ€Assembly (ROPISA) of Nâ€Carboxyanhydrides. Angewandte Chemie - International Edition, 2020, 59, 622-626. | 13.8 | 129 |
| 5 | Monomer versus Alcohol Activation in the 4â€Dimethylaminopyridineâ€Catalyzed Ringâ€Opening Polymerization of Lactide and Lactic <i>O</i>â€Carboxylic Anhydride. Chemistry - A European Journal, 2008, 14, 5304-5312. | 3.3 | 108 |
| 6 | Synthetic Glycopolypeptides as Biomimetic Analogues of Natural Glycoproteins. Biomacromolecules, 2013, 14, 2973-2983. | 5.4 | 92 |
| 7 | Functionalized polyesters from organocatalyzed ROP of gluOCA, the O-carboxyanhydride derived from glutamic acid. Chemical Communications, 2008, , 1786. | 4.1 | 77 |
| 8 | Iminosugar-based glycopolypeptides: glycosidase inhibition with bioinspired glycoprotein analogue micellar self-assemblies. Chemical Communications, 2014, 50, 3350-3352. | 4.1 | 75 |
| 9 | Synthetic Polypeptide Polymers as Simplified Analogues of Antimicrobial Peptides. Biomacromolecules, 2021, 22, 57-75. | 5.4 | 66 |
| 10 | Synthesis and self-assembly of â€œtree-likeâ€•amphiphilic glycopolypeptides. Chemical Communications, 2012, 48, 8353. | 4.1 | 64 |
| 11 | Multivalent effect of glycopolypeptide based nanoparticles for galectin binding. Chemical Communications, 2016, 52, 11251-11254. | 4.1 | 49 |
| 12 | Lipase-Catalyzed Ring-Opening Polymerization of the<i>O</i>-Carboxylic Anhydride Derived from Lactic Acid. Biomacromolecules, 2009, 10, 3069-3073. | 5.4 | 48 |
| 13 | Nano-thermometers with thermo-sensitive polymer grafted USPIOs behaving as positive contrast agents in low-field MRI. Nanoscale, 2015, 7, 3754-3767. | 5.6 | 47 |
| 14 | Preparation of antibacterial surfaces by hyperthermal hydrogen induced cross-linking of polymer thin films. Journal of Materials Chemistry, 2012, 22, 4881. | 6.7 | 43 |
| 15 | New clerodane diterpenoids from Laetia procera (Poepp.) Eichler (Flacourtiaceae), with antiplasmodial and antileishmanial activities. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 5065-5070. | 2.2 | 40 |
| 16 | Dendritic Guanidines as Efficient Analogues of Cell Penetrating Peptides. Pharmaceuticals, 2010, 3, 636-666. | 3.8 | 39 |
| 17 | Cyclic Poly(Î±-peptoid)s by Lithium bis(trimethylsilyl)amide (LiHMDS)-Mediated Ring-Expansion Polymerization: Simple Access to Bioactive Backbones. Journal of the American Chemical Society, 2021, 143, 3697-3702. | 13.7 | 37 |
| 18 | Functionalization of Alkyne-Terminated Thermally Hydrocarbonized Porous Silicon Nanoparticles With Targeting Peptides and Antifouling Polymers: Effect on the Human Plasma Protein Adsorption. ACS Applied Materials & Interfaces, 2015, 7, 2006-2015. | 8.0 | 33 |

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|---|---|---|---|
| 19 | Patterning of a Butyl Rubberâˆ’Poly(ethylene oxide) Graft Copolymer Revealed by Protein Adsorption. Macromolecules, 2010, 43, 9230-9233. | 4.8 | 28 |
| 20 | Aqueous ROPISA of Î±-amino acid <i>N</i>-carboxyanhydrides: polypeptide block secondary structure controls nanoparticle shape anisotropy. Polymer Chemistry, 2021, 12, 6242-6251. | 3.9 | 27 |
| 21 | Aqueous Ringâ€Opening Polymerizationâ€Induced Selfâ€Assembly (ROPISA) of Nâ€Carboxyanhydrides. Angewandte Chemie, 2020, 132, 632-636. | 2.0 | 26 |
| 22 | Smart metallopoly(<scp>l</scp>-glutamic acid) polymers: reversible helix-to-coil transition at neutral pH. RSC Advances, 2016, 6, 84694-84697. | 3.6 | 24 |
| 23 | Nucleopolypeptides with DNA-triggered Î± helix-to-Î² sheet transition. Chemical Communications, 2017, 53, 7501-7504. | 4.1 | 24 |
| 24 | Synthesis and self-assembly of branched glycopolypeptides: effect of topology and conformation. Faraday Discussions, 2013, 166, 137. | 3.2 | 23 |
| 25 | Synthesis and Assembly of Butyl Rubberâ€"Poly(ethylene oxide) Graft Copolymers: From Surface Patterning to Resistance to Protein Adsorption. Macromolecules, 2011, 44, 6405-6415. | 4.8 | 21 |
| 26 | Preparation of Protein- and Cell-Resistant Surfaces by Hyperthermal Hydrogen Induced Cross-Linking of Poly(ethylene oxide). ACS Applied Materials & Interfaces, 2011, 3, 1740-1748. | 8.0 | 21 |
| 27 | Combination of photodynamic therapy and gene silencing achieved through the hierarchical self-assembly of porphyrin-siRNA complexes. International Journal of Pharmaceutics, 2019, 569, 118585. | 5.2 | 20 |
| 28 | Heme alkylation by artemisinin and trioxaquines. Journal of Physical Organic Chemistry, 2006, 19, 562-569. | 1.9 | 18 |
| 29 | Dendritic surface functionalization of biodegradable polymer assemblies. Journal of Polymer Science Part A, 2011, 49, 2546-2559. | 2.3 | 18 |
| 30 | Ionic Polypeptide Polymers with Unusual Î²-Sheet Stability. Biomacromolecules, 2018, 19, 4068-4074. | 5.4 | 17 |
| 31 | Tuning polymersome surfaces: functionalization with dendritic groups. Soft Matter, 2012, 8, 5947. | 2.7 | 16 |
| 32 | Synthetic glycopolypeptides: synthesis and self-assembly of poly(Î³-benzyl-<scp>l</scp>-glutamate)-glycosylated dendron hybrids. Polymer Chemistry, 2015, 6, 7902-7912. | 3.9 | 16 |
| 33 | Cd<sup>2+</sup> coordination: an efficient structuring switch for polypeptide polymers. Polymer Chemistry, 2018, 9, 4100-4107. | 3.9 | 16 |
| 34 | Synthesis, Characterization, and Biological Interaction of Glyconanoparticles with Controlled Branching. Biomacromolecules, 2015, 16, 284-294. | 5.4 | 15 |
| 35 | Bidimensional lamellar assembly by coordination of peptidic homopolymers to platinum nanoparticles. Nature Communications, 2020, 11, 2051. | 12.8 | 15 |
| 36 | Thermoinduced Crystallization-Driven Self-Assembly of Bioinspired Block Copolymers in Aqueous Solution. Biomacromolecules, 2020, 21, 3411-3419. | 5.4 | 13 |

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| --- | --- | --- | --- |
| 37 | Star-like poly(peptoid)s with selective antibacterial activity. Polymer Chemistry, 2022, 13, 600-612. | 3.9 | 13 |
| 38 | Smart Poly(imidazoyl-l-lysine): Synthesis and Reversible Helix-to-Coil Transition at Neutral pH. Polymers, 2017, 9, 276. | 4.5 | 12 |
| 39 | Synthesis and properties of butyl rubber-poly(ethylene oxide) graft copolymers with high PEO content. Journal of Polymer Science Part A, 2013, 51, 3383-3394. | 2.3 | 10 |
| 40 | Synthesis, self-assembly, and degradation of amphiphilic triblock copolymers with fully photodegradable hydrophobic blocks. Canadian Journal of Chemistry, 2015, 93, 126-133. | 1.1 | 9 |
| 41 | Antitrypanosomatid Pharmacomodulation at Position 3 of the 8â€Nitroquinolinâ€2(1<i>H</i>)â€one Scaffold Using Palladiumâ€Catalysed Crossâ€Coupling Reactions. ChemMedChem, 2018, 13, 2217-2228. | 3.2 | 8 |
| 42 | New 8-Nitroquinolinone Derivative Displaying Submicromolar <i>in Vitro</i> Activities against Both <i>Trypanosoma brucei</i> and <i>cruzi</i>. ACS Medicinal Chemistry Letters, 2020, 11, 464-472. | 2.8 | 8 |
| 43 | Self-assembled PEGylated amphiphilic polypeptides for gene transfection. Journal of Materials Chemistry B, 2021, 9, 8224-8236. | 5.8 | 7 |
| 44 | Bare Histidineâ€"Serine Models: Implication and Impact of Hydrogen Bonding on Nucleophilicity. Chemistry - A European Journal, 2013, 19, 11301-11309. | 3.3 | 5 |
| 45 | Amphiphilic Nucleobase-Containing Polypeptide Copolymersâ€"Synthesis and Self-Assembly. Polymers, 2020, 12, 1357. | 4.5 | 5 |
| 46 | Synthesis of asymmetric guanidiniumphenyl-aminophenyl porphyrins. Journal of Porphyrins and Phthalocyanines, 2016, 20, 1438-1443. | 0.8 | 1 |
| 47 | Enhanced Dielectric Relaxation in Self-Organized Layers of Polypeptides Coupled to Platinum Nanoparticles: Temperature Dependence and Effect of Bias Voltage. Journal of Physical Chemistry C, 2021, 125, 22643-22649. | 3.1 | 1 |
| 48 | An oxygenated rubber derivative as a compatibilizer for the preparation of polymer films. Journal of Coatings Technology Research, 2013, 10, 733-742. | 2.5 | 0 |
| 49 | Titelbild: Aqueous Ringâ€Opening Polymerizationâ€Induced Selfâ€Assembly (ROPISA) of Nâ€Carboxyanhydrides (Angew. Chem. 2/2020). Angewandte Chemie, 2020, 132, 517-517. | 2.0 | 0 |