

Barnaby W Greenland

List of Publications by Year in descending order

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57
papers

3,690
citations

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144013

57
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all docs

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docs citations

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times ranked

4266
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A Healable Supramolecular Polymer Blend Based on Aromatic π - π Stacking and Hydrogen-Bonding Interactions. <i>Journal of the American Chemical Society</i> , 2010, 132, 12051-12058. | 13.7 | 779 |
| 2 | A self-repairing, supramolecular polymer system: healability as a consequence of donor-acceptor π - π stacking interactions. <i>Chemical Communications</i> , 2009, , 6717. | 4.1 | 475 |
| 3 | Healable polymeric materials: a tutorial review. <i>Chemical Society Reviews</i> , 2010, 39, 1973. | 38.1 | 389 |
| 4 | High-Strength, Healable, Supramolecular Polymer Nanocomposites. <i>Journal of the American Chemical Society</i> , 2012, 134, 5362-5368. | 13.7 | 303 |
| 5 | A Supramolecular Polymer Based on Tweezer-Type π - π Stacking Interactions: Molecular Design for Healability and Enhanced Toughness. <i>Chemistry of Materials</i> , 2011, 23, 6-8. | 6.7 | 222 |
| 6 | A novel self-healing supramolecular polymer system. <i>Faraday Discussions</i> , 2009, 143, 251. | 3.2 | 186 |
| 7 | Healable supramolecular polymers. <i>Polymer Chemistry</i> , 2013, 4, 4860. | 3.9 | 138 |
| 8 | Hydrogen Bonded Supramolecular Elastomers: Correlating Hydrogen Bonding Strength with Morphology and Rheology. <i>Macromolecules</i> , 2010, 43, 2512-2517. | 4.8 | 101 |
| 9 | Design, synthesis and computational modelling of aromatic tweezer-molecules as models for chain-folding polymer blends. <i>Tetrahedron</i> , 2008, 64, 8346-8354. | 1.9 | 77 |
| 10 | Multivalency in healable supramolecular polymers: the effect of supramolecular cross-link density on the mechanical properties and healing of non-covalent polymer networks. <i>Polymer Chemistry</i> , 2014, 5, 3680-3688. | 3.9 | 75 |
| 11 | pH-Tunable Hydrogelators for Water Purification: Structural Optimisation and Evaluation. <i>Chemistry - A European Journal</i> , 2012, 18, 2692-2699. | 3.3 | 70 |
| 12 | Tuning the Self-Assembly of the Bioactive Dipeptide α -Carnosine by Incorporation of a Bulky Aromatic Substituent. <i>Langmuir</i> , 2011, 27, 2980-2988. | 3.5 | 67 |
| 13 | Pyrene-Functionalised, Alternating Copolyimide for Sensing Nitroaromatic Compounds. <i>Macromolecular Rapid Communications</i> , 2009, 30, 459-463. | 3.9 | 58 |
| 14 | Molecular recognition between functionalized gold nanoparticles and healable, supramolecular polymer blends – a route to property enhancement. <i>Polymer Chemistry</i> , 2013, 4, 4902. | 3.9 | 55 |
| 15 | Supramolecular Approach to New Inkjet Printing Inks. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8906-8914. | 8.0 | 40 |
| 16 | Supramolecular Polymer Networks and Gels. <i>Advances in Polymer Science</i> , 2015, , . | 0.8 | 39 |
| 17 | Composite polyurethane adhesives that debond-on-demand by hysteresis heating in an oscillating magnetic field. <i>European Polymer Journal</i> , 2019, 121, 109264. | 5.4 | 39 |
| 18 | Facile bisurethane supramolecular polymers containing flexible alicyclic receptor units. <i>Soft Matter</i> , 2009, 5, 2000. | 2.7 | 37 |

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|----|---|-----|-----------|
| 19 | Fluoride degradable and thermally debondable polyurethane based adhesive. <i>Polymer Chemistry</i> , 2017, 8, 7207-7216. | 3.9 | 36 |
| 20 | Thermoresponsive Supramolecular Polymer Network Comprising Pyrene-Functionalized Gold Nanoparticles and a Chain-Folding Polydiimide. <i>Macromolecules</i> , 2012, 45, 5567-5574. | 4.8 | 33 |
| 21 | Mutual binding of polymer end-groups by complementary π - π -stacking: a molecular "Roman Handshake". <i>Chemical Communications</i> , 2013, 49, 454-456. | 4.1 | 33 |
| 22 | Tuning thermal properties and microphase separation in aliphatic polyester ABA copolymers. <i>Polymer Chemistry</i> , 2015, 6, 1445-1453. | 3.9 | 32 |
| 23 | Crystallization and stereocomplexation behavior of poly(α -methyl methacrylate) and poly(α -methyl styrene) copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 1397-1409. | 2.1 | 30 |
| 24 | Effect of water-soluble polymers, polyethylene glycol and poly(vinylpyrrolidone), on the gelation of aqueous micellar solutions of Pluronic copolymer F127. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 336-341. | 9.4 | 29 |
| 25 | Installing Multiple Functional Groups on Biodegradable Polyesters via Post-Polymerization Olefin Cross-Metathesis. <i>Macromolecules</i> , 2016, 49, 6826-6834. | 4.8 | 28 |
| 26 | Fluoride-responsive debond on demand adhesives: Manipulating polymer crystallinity and hydrogen bonding to optimise adhesion strength at low bonding temperatures. <i>European Polymer Journal</i> , 2019, 119, 260-271. | 5.4 | 24 |
| 27 | A General Synthesis of Macrocyclic π -Electron-Acceptor Systems. <i>Organic Letters</i> , 2009, 11, 5238-5241. | 4.6 | 21 |
| 28 | Electrospun supramolecular polymer fibres. <i>European Polymer Journal</i> , 2012, 48, 1249-1255. | 5.4 | 21 |
| 29 | Evolution of supramolecular healable composites: a minireview. <i>Polymer International</i> , 2014, 63, 933-942. | 3.1 | 19 |
| 30 | A systematic study of the effect of the hard end-group composition on the microphase separation, thermal and mechanical properties of supramolecular polyurethanes. <i>Polymer</i> , 2016, 107, 368-378. | 3.8 | 19 |
| 31 | Efficient access to conjugated 4,4'-bipyridinium oligomers using the Zincke reaction: synthesis, spectroscopic and electrochemical properties. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 980-988. | 2.8 | 19 |
| 32 | Donor-Acceptor π - π Stacking Interactions: From Small Molecule Complexes to Healable Supramolecular Polymer Networks. <i>Advances in Polymer Science</i> , 2015, , 143-166. | 0.8 | 17 |
| 33 | Mutual Complexation between π -Stacked Molecular Tweezers. <i>Crystal Growth and Design</i> , 2018, 18, 386-392. | 3.0 | 15 |
| 34 | Robust and Operationally Simple Synthesis of Poly(bis(2,2,2-trifluoroethoxy) phosphazene) with Controlled Molecular Weight, Low PDI, and High Conversion. <i>ACS Macro Letters</i> , 2014, 3, 548-551. | 4.8 | 14 |
| 35 | Pyrene-Modified Quartz Crystal Microbalance for the Detection of Polynitroaromatic Compounds. <i>Analytical Chemistry</i> , 2011, 83, 6208-6214. | 6.5 | 11 |
| 36 | Molecular design of a discrete chain-folding polyimide for controlled inkjet deposition of supramolecular polymers. <i>Polymer Chemistry</i> , 2015, 6, 7342-7352. | 3.9 | 11 |

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|----|---|-----|-----------|
| 37 | Synthesis of beaded poly(vinyl ether) solid supports with unique solvent compatibility. <i>Polymer</i> , 2010, 51, 2984-2992. | 3.8 | 10 |
| 38 | Conjugated, rod-like viologen oligomers: Correlation of oligomer length with conductivity and photoconductivity. <i>Synthetic Metals</i> , 2018, 241, 31-38. | 3.9 | 9 |
| 39 | Pairwise Assembly of Organopalladium(II) Units with Cyanurato(3 ⁻) and Trithiocyanurato(3 ⁻) Ligands: Formation of Chiral Pd ₁₂ , Pd ₁₀ , and Pd ₉ Cage-Molecules. <i>Inorganic Chemistry</i> , 2013, 52, 10424-10430. | 4.0 | 8 |
| 40 | Prediction of cathodic E _{1/2 1} and E _{1/2 2} values for viologen-containing conjugated unimers and dimers from calculated pK _b values of the aromatic substituents. <i>Tetrahedron Letters</i> , 2017, 58, 1859-1862. | 1.4 | 8 |
| 41 | Synthesis and biological evaluation of benzodiazepines containing a pentafluorosulfanyl group. <i>Tetrahedron</i> , 2021, 85, 132020. | 1.9 | 8 |
| 42 | Lightly branched comb polyesters: Application in fast drying solvent-borne coating formulations. <i>Reactive and Functional Polymers</i> , 2013, 73, 619-623. | 4.1 | 7 |
| 43 | Self-assembling unsymmetrical bis-ureas. <i>Reactive and Functional Polymers</i> , 2018, 124, 156-161. | 4.1 | 7 |
| 44 | Novel Polyvinylpyrrolidones To Improve Delivery of Poorly Water-Soluble Drugs: From Design to Synthesis and Evaluation. <i>Molecular Pharmaceutics</i> , 2012, 9, 2237-2247. | 4.6 | 6 |
| 45 | Hyperbranched polymers containing oxazoline monomers and succinic anhydride: Applications in fast drying, low solvent coating formulations. <i>Progress in Organic Coatings</i> , 2014, 77, 1516-1522. | 3.9 | 6 |
| 46 | Quadruple stacking of macrocyclic viologen radical-cations. <i>Supramolecular Chemistry</i> , 2018, 30, 751-757. | 1.2 | 6 |
| 47 | A macrocyclic receptor containing two viologen species connected by conjugated terphenyl groups. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 5006-5015. | 2.8 | 6 |
| 48 | Expanding the Repertoire of Low-Molecular-Weight Pentafluorosulfanyl-Substituted Scaffolds. <i>ChemMedChem</i> , 2022, 17, e202100641. | 3.2 | 6 |
| 49 | Synthesis of novel hyperbranched polymers featuring oxazoline linear units and their application in fast-drying solvent-borne coating formulations. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3964-3974. | 2.3 | 5 |
| 50 | Multifunctional, Biocompatible, Non-peptidic Hydrogels: from Water Purification to Drug Delivery. <i>ChemistrySelect</i> , 2016, 1, 1641-1649. | 1.5 | 5 |
| 51 | Elements of fractal geometry in the ¹ H NMR spectrum of a copolymer intercalation-complex: identification of the underlying Cantor set. <i>Chemical Science</i> , 2018, 9, 4052-4061. | 7.4 | 5 |
| 52 | Healable Supramolecular Polymeric Materials. <i>RSC Polymer Chemistry Series</i> , 2013, , 92-125. | 0.2 | 3 |
| 53 | Healable Polymeric Materials. <i>RSC Polymer Chemistry Series</i> , 2013, , 1-15. | 0.2 | 2 |
| 54 | Urea Organogelators – Synthesis and Properties. <i>Macromolecular Symposia</i> , 2013, 329, 118-124. | 0.7 | 2 |

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|----|--|-----|-----------|
| 55 | A fluoride degradable crosslinker for debond-on-demand polyurethane based crosslinked adhesives. Materials Today Communications, 2021, 26, 101777. | 1.9 | 2 |
| 56 | Towards Cyclophosphazene Based Dendrimers For Energetic Binders. Materials Research Society Symposia Proceedings, 2005, 896, 51. | 0.1 | 0 |
| 57 | Chapter 6. Polymeric Materials Based on NDI and its Congeners. Monographs in Supramolecular Chemistry, 2017, , 167-217. | 0.2 | 0 |