# Alan E Rowan

## List of Publications by Citations



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|---|---|---|---|
| 306 papers | 17,443 citations | 67 h-index | 122 g-index |
| 328 ext. papers | 18,686 ext. citations | 9.5 avg, IF | 6.45 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 306 | Self-assembled nanoreactors. *Chemical Reviews*, **2005**, 105, 1445-89 | 68.1 | 1300 |
| 305 | Chiral architectures from macromolecular building blocks. *Chemical Reviews*, **2001**, 101, 4039-70 | 68.1 | 788 |
| 304 | Molecular Materials by Self-Assembly of Porphyrins, Phthalocyanines, and Perylenes. *Advanced Materials*, **2006**, 18, 1251-1266 | 24 | 604 |
| 303 | Mastering molecular matter. Supramolecular architectures by hierarchical self-assembly. *Journal of Materials Chemistry*, **2003**, 13, 2661-2670 | | 422 |
| 302 | Helical Molecular Programming. *Angewandte Chemie - International Edition*, **1998**, 37, 63-68 | 16.4 | 398 |
| 301 | A virus-based single-enzyme nanoreactor. *Nature Nanotechnology*, **2007**, 2, 635-9 | 28.7 | 350 |
| 300 | Responsive biomimetic networks from polyisocyanopeptide hydrogels. *Nature*, **2013**, 493, 651-5 | 50.4 | 346 |
| 299 | Positional assembly of enzymes in polymersome nanoreactors for cascade reactions. *Angewandte Chemie - International Edition*, **2007**, 46, 7378-82 | 16.4 | 346 |
| 298 | Epoxidation of polybutadiene by a topologically linked catalyst. *Nature*, **2003**, 424, 915-8 | 50.4 | 343 |
| 297 | Vesicles and polymerized vesicles from thiophene-containing rod-coil block copolymers. *Angewandte Chemie - International Edition*, **2003**, 42, 772-6 | 16.4 | 292 |
| 296 | Macroscopic hierarchical surface patterning of porphyrin trimers via self-assembly and dewetting. *Science*, **2006**, 314, 1433-6 | 33.3 | 287 |
| 295 | beta -Helical polymers from isocyanopeptides. *Science*, **2001**, 293, 676-80 | 33.3 | 261 |
| 294 | Stretched exponential decay and correlations in the catalytic activity of fluctuating single lipase molecules. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 2368-72 | 11.5 | 256 |
| 293 | Stress-stiffening-mediated stem-cell commitment switch in soft responsive hydrogels. *Nature Materials*, **2016**, 15, 318-25 | 27 | 254 |
| 292 | Molecular and Supramolecular Objects from Glycoluril. *Accounts of Chemical Research*, **1999**, 32, 995-1006 | 14.3 | 238 |
| 291 | Functional interlocked systems. *Chemical Society Reviews*, **2014**, 43, 99-122 | 58.5 | 234 |
| 290 | Bionanoconjugation via click chemistry: The creation of functional hybrids of lipases and gold nanoparticles. *Bioconjugate Chemistry*, **2006**, 17, 1373-5 | 6.3 | 223 |

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| 289 | Lipase polystyrene giant amphiphiles. *Journal of the American Chemical Society*, **2002**, 124, 4224-5 | 16.4 | 216 |
| 288 | Transfection mediated by gemini surfactants: engineered escape from the endosomal compartment. *Journal of the American Chemical Society*, **2003**, 125, 1551-8 | 16.4 | 210 |
| 287 | Helical poly(isocyanides): past, present and future. *Polymer Chemistry*, **2011**, 2, 33-47 | 4.9 | 194 |
| 286 | Preparation of biohybrid amphiphiles via the copper catalysed Huisgen [3 + 2] dipolar cycloaddition reaction. *Chemical Communications*, **2005**, 4172-4 | 5.8 | 186 |
| 285 | From simple to supramolecular cytochrome P450 mimics. *Chemical Society Reviews*, **2000**, 29, 375-384 | 58.5 | 183 |
| 284 | Real-time single-molecule imaging of oxidation catalysis at a liquid-solid interface. *Nature Nanotechnology*, **2007**, 2, 285-9 | 28.7 | 167 |
| 283 | Single-enzyme kinetics of CALB-catalyzed hydrolysis. *Angewandte Chemie - International Edition*, **2005**, 44, 560-4 | 16.4 | 160 |
| 282 | Donor-acceptor phthalocyanine nanoaggregates. *Journal of the American Chemical Society*, **2003**, 125, 12300-8 | 16.4 | 154 |
| 281 | Synthesis and Recognition Properties of Aromatic Amide Oligomers: Molecular Zippers. *Journal of the American Chemical Society*, **2000**, 122, 8856-8868 | 16.4 | 150 |
| 280 | Ultra-responsive soft matter from strain-stiffening hydrogels. *Nature Communications*, **2014**, 5, 5808 | 17.4 | 140 |
| 279 | Triazole: a unique building block for the construction of functional materials. *Chemical Communications*, **2011**, 47, 8740-9 | 5.8 | 135 |
| 278 | Organogel formation and molecular imprinting by functionalizedgluconamides and their metal complexes. *Chemical Communications*, **1997**, 545-546 | 5.8 | 131 |
| 277 | Catalytic capsids: the art of confinement. *Chemical Science*, **2011**, 2, 358-362 | 9.4 | 128 |
| 276 | Rhodium-mediated stereoselective polymerization of "carbenes". *Journal of the American Chemical Society*, **2006**, 128, 9746-52 | 16.4 | 113 |
| 275 | Hexakis Porphyrinato Benzenes. A New Class of Porphyrin Arrays. *Journal of the American Chemical Society*, **1998**, 120, 11054-11060 | 16.4 | 113 |
| 274 | Binding Features of Molecular Clips. Separation of the Effects of Hydrogen Bonding and  Interactions. *Journal of the American Chemical Society*, **1997**, 119, 9956-9964 | 16.4 | 112 |
| 273 | Enzymes containing porous polymersomes as nano reaction vessels for cascade reactions. *Organic and Biomolecular Chemistry*, **2008**, 6, 4315-8 | 3.9 | 112 |
| 272 | Binding of Porphyrins in Cyclodextrin Dimers. *Journal of the American Chemical Society*, **1996**, 118, 257-258 | 16.4 | 107 |

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| 271 | Chiral molecular tapes from novel tetra(thiafulvalene-crown-ether)-substituted phthalocyanine building blocks. *Chemical Communications*, **2005**, 1255-7 | 5.8 | 106 |
| 270 | Macromolecular multi-chromophoric scaffolding. *Chemical Society Reviews*, **2010**, 39, 1576-99 | 58.5 | 105 |
| 269 | Investigation of perylene photonic wires by combined single-molecule fluorescence and atomic force microscopy. *Angewandte Chemie - International Edition*, **2004**, 43, 4045-9 | 16.4 | 105 |
| 268 | A virus-based biocatalyst. *Nature Nanotechnology*, **2007**, 2, 226-9 | 28.7 | 104 |
| 267 | Self-assembled organic microfibers for nonlinear optics. *Advanced Materials*, **2013**, 25, 2084-9 | 24 | 98 |
| 266 | Detection of different oxidation states of individual manganese porphyrins during their reaction with oxygen at a solid/liquid interface. *Nature Chemistry*, **2013**, 5, 621-7 | 17.6 | 97 |
| 265 | LCD alignment layers. Controlling nematic domain properties. *Journal of Materials Chemistry*, **2006**, 16, 1305-1314 | | 97 |
| 264 | Helical polymer-anchored porphyrin nanorods. *Chemistry - A European Journal*, **2003**, 9, 1775-81 | 4.8 | 97 |
| 263 | Interlaboratory round robin on cantilever calibration for AFM force spectroscopy. *Ultramicroscopy*, **2011**, 111, 1659-69 | 3.1 | 93 |
| 262 | Mechanism of threading a polymer through a macrocyclic ring. *Science*, **2008**, 322, 1668-71 | 33.3 | 92 |
| 261 | High Shape Persistence in Single Polymer Chains Rigidified with Lateral Hydrogen Bonded Networks. *Macromolecules*, **2002**, 35, 5290-5294 | 5.5 | 91 |
| 260 | Porphyrin Clips Derived from Diphenylglycoluril. Synthesis, Conformational Analysis, and Binding Properties. *Journal of Organic Chemistry*, **1999**, 64, 7009-7016 | 4.2 | 84 |
| 259 | Supramolecular porphyrin polymers in solution and at the solid-liquid interface. *Nano Letters*, **2008**, 8, 253-9 | 11.5 | 83 |
| 258 | Porphyrin macrocyclic catalysts for the processive oxidation of polymer substrates. *Journal of the American Chemical Society*, **2010**, 132, 1529-31 | 16.4 | 80 |
| 257 | 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, 14605-14 | 16.4 | 80 |
| 256 | The mechanical microenvironment in cancer: How physics affects tumours. *Seminars in Cancer Biology*, **2015**, 35, 62-70 | 12.7 | 79 |
| 255 | Interfacial Activation of Candida antarctica Lipase B: Combined Evidence from Experiment and Simulation. *Biochemistry*, **2015**, 54, 5969-79 | 3.2 | 79 |
| 254 | A novel modular approach to triazole-functionalized phthalocyanines using click chemistry. *Journal of Organic Chemistry*, **2009**, 74, 21-5 | 4.2 | 77 |

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| 253 | Self-Assembly and Manipulation of Crown Ether Phthalocyanines at the Gel-Graphite Interface. *Angewandte Chemie - International Edition*, **2001**, 40, 2348-2350 | 16.4 | 77 |
| 252 | Improved Performance of Perylene-Based Photovoltaic Cells Using Polyisocyanopeptide Arrays. *Macromolecules*, **2009**, 42, 2023-2030 | 5.5 | 74 |
| 251 | Synthesis, Conformation, and Binding Properties of Cyclodextrin Homo- and Heterodimers Connected through Their Secondary Sides. *Chemistry - A European Journal*, **1998**, 4, 2237-2250 | 4.8 | 74 |
| 250 | Aided self-assembly of porphyrin nanoaggregates into ring-shaped architectures. *Chemistry - A European Journal*, **2004**, 10, 831-9 | 4.8 | 73 |
| 249 | Dynamics of molecular self-ordering in tetraphenyl porphyrin monolayers on metallic substrates. *Nanotechnology*, **2009**, 20, 275602 | 3.4 | 72 |
| 248 | Mesostructure of Evaporated Porphyrin Thin Films: Porphyrin Wheel Formation. *Journal of Physical Chemistry B*, **1997**, 101, 10588-10598 | 3.4 | 70 |
| 247 | Highly negative homotropic allosteric binding of viologens in a double-cavity porphyrin. *Journal of the American Chemical Society*, **2003**, 125, 1186-7 | 16.4 | 70 |
| 246 | Therapeutic nanoworms: towards novel synthetic dendritic cells for immunotherapy. *Chemical Science*, **2013**, 4, 4168 | 9.4 | 69 |
| 245 | Scanning Probe Studies of Porphyrin Assemblies and Their Supramolecular Manipulation at a Solid□Liquid Interface. *Advanced Materials*, **2003**, 15, 2070-2073 | 24 | 69 |
| 244 | High-Efficiency Second-Harmonic Generation from Hybrid Light-Matter States. *Nano Letters*, **2016**, 16, 7352-7356 | 11.5 | 68 |
| 243 | Tuning Hydrogel Mechanics Using the Hofmeister Effect. *Advanced Functional Materials*, **2015**, 25, 6503-6510 | 15.6 | 68 |
| 242 | Assemblies of perylene diimide derivatives with melamine into luminescent hydrogels. *Chemical Communications*, **2011**, 47, 11858-60 | 5.8 | 68 |
| 241 | Electronic Transport Properties of Ensembles of Perylene-Substituted Poly-isocyanopeptide Arrays. *Advanced Functional Materials*, **2008**, 18, 3947-3955 | 15.6 | 68 |
| 240 | The enzyme mechanism of nitrite reductase studied at single-molecule level. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 3250-5 | 11.5 | 67 |
| 239 | Tunable command layers for liquid crystal alignment. *Journal of the American Chemical Society*, **2005**, 127, 11047-52 | 16.4 | 67 |
| 238 | A host□guest epoxidation catalyst with enhanced activity and stability. *Chemical Communications*, **2000**, 2443-2444 | 5.8 | 67 |
| 237 | Ring Formation in Evaporating Porphyrin Derivative Solutions. *Langmuir*, **1999**, 15, 3582-3588 | 4 | 66 |
| 236 | Self-assembled Architectures from Glycoluril. *Industrial & Engineering Chemistry Research*, **2000**, 39, 3419-3428 | 3.9 | 65 |

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| 235 | Synthesis and single enzyme activity of a clicked lipase-BSA hetero-dimer. *Chemical Communications* , **2006**, 2012-4 | 5.8 | 63 |
| 234 | "Helter-skelter-like" perylene polyisocyanopeptides. *Chemistry - A European Journal*, **2009**, 15, 2536-47 | 4.8 | 62 |
| 233 | Electroformed Giant Vesicles from Thiophene-Containing Rod□Coil Diblock Copolymers. *Macromolecules*, **2004**, 37, 4736-4739 | 5.5 | 62 |
| 232 | Processive enzyme mimic: Kinetics and thermodynamics of the threading and sliding process. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19647-51 | 11.5 | 60 |
| 231 | From (bio)Molecules to Biohybrid Materials with the Click Chemistry Approach. *QSAR and Combinatorial Science*, **2007**, 26, 1200-1210 | | 59 |
| 230 | Synthesis of porphyrin-containing [3]rotaxanes by olefin metathesis. *Angewandte Chemie - International Edition*, **2003**, 42, 650-4 | 16.4 | 59 |
| 229 | A clamp-like biohybrid catalyst for DNA oxidation. *Nature Chemistry*, **2013**, 5, 945-51 | 17.6 | 58 |
| 228 | Do enzymes sleep and work?. *Chemical Communications*, **2006**, 935-40 | 5.8 | 57 |
| 227 | Vesicles and Polymerized Vesicles from Thiophene-Containing Rod□Coil Block Copolymers. *Angewandte Chemie*, **2003**, 115, 796-800 | 3.6 | 57 |
| 226 | Aggregation Induced Enhancement of Linear and Nonlinear Optical Emission from a Hexaphenylene Derivative. *Advanced Functional Materials*, **2016**, 26, 8968-8977 | 15.6 | 56 |
| 225 | Allosterically driven multicomponent assembly. *Angewandte Chemie - International Edition*, **2004**, 43, 4755-9 | 16.4 | 54 |
| 224 | Nonlinear mechanics of hybrid polymer networks that mimic the complex mechanical environment of cells. *Nature Communications*, **2017**, 8, 15478 | 17.4 | 52 |
| 223 | Thermosensitive biomimetic polyisocyanopeptide hydrogels may facilitate wound repair. *Biomaterials*, **2018**, 181, 392-401 | 15.6 | 52 |
| 222 | Synthesis and characterization of long perylenediimide polymer fibers: from bulk to the single-molecule level. *Journal of Physical Chemistry B*, **2006**, 110, 7803-12 | 3.4 | 51 |
| 221 | Polarized Absorption and Emission of Ordered Self-Assembled Porphyrin Rings. *Nano Letters*, **2004**, 4, 1401-1406 | 11.5 | 51 |
| 220 | Hierarchical self-assembly of amphiphilic metallohosts to give discrete nanostructures. *Journal of the American Chemical Society*, **2002**, 124, 1532-40 | 16.4 | 51 |
| 219 | Organized chromophoric assemblies for nonlinear optical materials: towards (sub)wavelength scale architectures. *Small*, **2015**, 11, 1113-29 | 11 | 50 |
| 218 | Muscovite mica: Flatter than a pancake. *Surface Science*, **2014**, 619, 19-24 | 1.8 | 50 |

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| 217 | Dynamic disorder in single-enzyme experiments: facts and artifacts. *ACS Nano*, **2012**, 6, 346-54 | 16.7 | 50 |
| 216 | The relationship between nanoscale architecture and charge transport in conjugated nanocrystals bridged by multichromophoric Polymers. *Journal of the American Chemical Society*, **2009**, 131, 7055-63 | 16.4 | 50 |
| 215 | Processive catalysis. *Angewandte Chemie - International Edition*, **2014**, 53, 11420-8 | 16.4 | 49 |
| 214 | Manganese Porphyrin Hosts as Epoxidation Catalysts Activity and Stability Control by Axial Ligand Effects. *European Journal of Organic Chemistry*, **2007**, 2007, 751-757 | 3.2 | 49 |
| 213 | SFM Characterization of Poly(isocyanodipeptide) Single Polymer Chains in Controlled Environments: Effect of Tip Adhesion and Chain Swelling. *Macromolecules*, **2005**, 38, 473-480 | 5.5 | 48 |
| 212 | Extended conjugated ruthenium zinc-porphyrin complexes with enhanced nonlinear-optical properties. *Chemical Communications*, **2015**, 51, 2855-8 | 5.8 | 47 |
| 211 | Crosslinking of fibrous hydrogels. *Nature Communications*, **2018**, 9, 2172 | 17.4 | 47 |
| 210 | Self-association and self-assembly of molecular clips in solution and in the solid state. *Tetrahedron*, **2003**, 59, 175-185 | 2.4 | 46 |
| 209 | Enantioselective binding of amino acids and amino alcohols by self-assembled chiral basket-shaped receptors. *Tetrahedron*, **2004**, 60, 291-300 | 2.4 | 45 |
| 208 | Liquid-Crystalline Physical Gels: Self-Aggregation of a Gluconamide Derivative in Mesogenic Molecules for the Formation of Anisotropic Functional Composites. *Chemistry of Materials*, **2000**, 12, 440-443 | 9.6 | 45 |
| 207 | Cytoskeletal stiffening in synthetic hydrogels. *Nature Communications*, **2019**, 10, 609 | 17.4 | 43 |
| 206 | Post-modification of helical dipeptido polyisocyanides using the click reaction. *Journal of Materials Chemistry*, **2008**, 18, 5615 | | 43 |
| 205 | Synthetic Extracellular Matrices with Nonlinear Elasticity Regulate Cellular Organization. *Biomacromolecules*, **2019**, 20, 826-834 | 6.9 | 43 |
| 204 | Dynamic combinatorial olefin metathesis: templated synthesis of porphyrin boxes. *Chemical Communications*, **2005**, 3535-7 | 5.8 | 42 |
| 203 | Bundle Formation in Biomimetic Hydrogels. *Biomacromolecules*, **2016**, 17, 2642-9 | 6.9 | 41 |
| 202 | Triazolepyridine ligands: a novel approach to chromophoric iridium arrays. *Journal of Materials Chemistry*, **2011**, 21, 2104-2111 | | 41 |
| 201 | Conformational analysis of dipeptide-derived polyisocyanides. *Journal of Polymer Science Part A*, **2003**, 41, 1725-1736 | 2.5 | 41 |
| 200 | Single-biomolecule kinetics: the art of studying a single enzyme. *Annual Review of Analytical Chemistry*, **2010**, 3, 319-40 | 12.5 | 40 |

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| 199 | Processive rotaxane systems. Studies on the mechanism and control of the threading process. *Journal of the American Chemical Society*, **2007**, 129, 5699-702 | 16.4 | 40 |
| 198 | Magnetic nanocellulose: A potential material for removal of dye from water. *Journal of Hazardous Materials*, **2020**, 394, 122571 | 12.8 | 39 |
| 197 | Injectable Biomimetic Hydrogels as Tools for Efficient T Cell Expansion and Delivery. *Frontiers in Immunology*, **2018**, 9, 2798 | 8.4 | 39 |
| 196 | Synthesis and self-assembly of giant porphyrin discs. *Chemical Communications*, **2004**, 762-3 | 5.8 | 38 |
| 195 | Polyisocyanopeptide hydrogels: A novel thermo-responsive hydrogel supporting pre-vascularization and the development of organotypic structures. *Acta Biomaterialia*, **2018**, 70, 129-139 | 10.8 | 37 |
| 194 | Novel Cleft-Containing Porphyrins as Models for Studying Electron Transfer Processes. *Angewandte Chemie International Edition in English*, **1997**, 36, 361-363 | | 37 |
| 193 | Bipyridine functionalized molecular clips. Self-assembly of their ruthenium complexes in water. *Chemical Communications*, **1998**, 1553-1554 | 5.8 | 37 |
| 192 | Fusing triazoles: toward extending aromaticity. *Organic Letters*, **2011**, 13, 3494-7 | 6.2 | 36 |
| 191 | Self-Organization of Semiconducting Polysiloxane-Phthalocyanine on a Graphite Surface. *Advanced Materials*, **2005**, 17, 1265-1268 | 24 | 36 |
| 190 | A Portable and Efficient Solar-Rechargeable Battery with Ultrafast Photo-Charge/Discharge Rate. *Advanced Energy Materials*, **2019**, 9, 1900872 | 21.8 | 35 |
| 189 | Direct Access to Polyisocyanide Screw Sense Using Vibrational Circular Dichroism. *Macromolecules*, **2010**, 43, 7931-7935 | 5.5 | 35 |
| 188 | Synthesis, characterisation and chiroptical properties of clickable polyisocyanopeptides. *Journal of Materials Chemistry*, **2007**, 17, 1876-1884 | | 35 |
| 187 | Polyisocyanides derived from tripeptides of alanine. *Chemistry - A European Journal*, **2007**, 13, 950-60 | 4.8 | 35 |
| 186 | Biomimetic Networks with Enhanced Photodynamic Antimicrobial Activity from Conjugated Polythiophene/Polyisocyanide Hybrid Hydrogels. *Angewandte Chemie - International Edition*, **2020**, 59, 2720-2724 | 16.4 | 35 |
| 185 | Controlling Microsized Polymorphic Architectures with Distinct Linear and Nonlinear Optical Properties. *Advanced Optical Materials*, **2015**, 3, 948-956 | 8.1 | 34 |
| 184 | Conformational Behavior and Binding Properties of Naphthalene-Walled Clips. *Chemistry - A European Journal*, **1998**, 4, 716-722 | 4.8 | 34 |
| 183 | Acid-initiated stereospecific polymerization of isocyanopeptides. *Angewandte Chemie - International Edition*, **2005**, 44, 1990-3 | 16.4 | 33 |
| 182 | Allosterically controlled threading of polymers through macrocyclic dimers. *Journal of the American Chemical Society*, **2015**, 137, 3915-23 | 16.4 | 32 |

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| 181 | DNA-Responsive Polyisocyanopeptide Hydrogels with Stress-Stiffening Capacity. *Advanced Functional Materials*, **2016**, 26, 9075-9082 | 15.6 | 32 |
| 180 | Molecular recognition and self-assembly special feature: Squaring cooperative binding circles. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 10471-6 | 11.5 | 32 |
| 179 | Lamellar organic thin films through self-assembly and molecular recognition. *Journal of Organic Chemistry*, **2001**, 66, 391-9 | 4.2 | 32 |
| 178 | Materials Nanoarchitectonics Using 2D Layered Materials: Recent Developments in the Intercalation Process. *Small*, **2018**, 14, e1800551 | 11 | 32 |
| 177 | Designing processive catalytic systems. Threading polymers through a flexible macrocycle ring. *Journal of the American Chemical Society*, **2014**, 136, 9165-72 | 16.4 | 31 |
| 176 | Biocatalytic oxidation by chloroperoxidase from Caldariomyces fumago in polymersome nanoreactors. *Organic and Biomolecular Chemistry*, **2009**, 7, 4604-10 | 3.9 | 31 |
| 175 | Giant porphyrin disks: control of their self-assembly at liquid-solid interfaces through metal-ligand interactions. *Chemistry - A European Journal*, **2007**, 13, 7948-56 | 4.8 | 31 |
| 174 | Self-Assembly and Manipulation of Crown Ether Phthalocyanines at the Gel□raphite Interface. *Angewandte Chemie*, **2001**, 113, 2410-2412 | 3.6 | 31 |
| 173 | Controlling T-Cell Activation with Synthetic Dendritic Cells Using the Multivalency Effect. *ACS Omega*, **2017**, 2, 937-945 | 3.9 | 30 |
| 172 | Molecular clips based on propanediurea: exceptionally high binding affinities for resorcinol guests. *Journal of Organic Chemistry*, **2001**, 66, 2643-53 | 4.2 | 30 |
| 171 | Substituent chemical shifts in NMR. Part 4□H SCS in some 2-substituted norbornanes and bornanes. *Magnetic Resonance in Chemistry*, **1989**, 27, 1074-1084 | 2.1 | 30 |
| 170 | Polymer-based synthetic dendritic cells for tailoring robust and multifunctional T cell responses. *ACS Chemical Biology*, **2015**, 10, 485-92 | 4.9 | 29 |
| 169 | Templated hierarchical self-assembly of poly(p-aryltriazole) foldamers. *Angewandte Chemie - International Edition*, **2013**, 52, 11040-4 | 16.4 | 29 |
| 168 | A hydrogel-based enzyme-loaded polymersome reactor. *Nanoscale*, **2010**, 2, 709-16 | 7.7 | 29 |
| 167 | 1. Solvent, Linker, and Anion Effects on the Formation, Connectivity, and Topology of Cu(I)/PPh3/N-Donor Ligand Coordination Polymers. *Crystal Growth and Design*, **2011**, 11, 4313-4325 | 3.5 | 29 |
| 166 | A polymeric molecular "handle" for multiple AFM-based single-molecule force measurements. *Angewandte Chemie - International Edition*, **2008**, 47, 2431-4 | 16.4 | 29 |
| 165 | LCD-based detection of enzymatic action. *Chemical Communications*, **2006**, 434-5 | 5.8 | 29 |
| 164 | Plastic- and liquid-crystalline architectures from dendritic receptor molecules. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 5093-8 | 11.5 | 29 |

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| 163 | Molecular computing: paths to chemical Turing machines. *Chemical Science*, **2015**, 6, 6050-6058 | 9.4 | 28 |
| 162 | Modeling the Impact of Microgravity at the Cellular Level: Implications for Human Disease. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 96 | 5.7 | 28 |
| 161 | 3D Printing of Thermoresponsive Polyisocyanide (PIC) Hydrogels as Bioink and Fugitive Material for Tissue Engineering. *Polymers*, **2018**, 10, | 4.5 | 28 |
| 160 | Preparation and characterization of non-linear poly(ethylene glycol) analogs from oligo(ethylene glycol) functionalized polyisocyanopeptides. *European Polymer Journal*, **2013**, 49, 1510-1522 | 5.2 | 28 |
| 159 | Strategies To Increase the Thermal Stability of Truly Biomimetic Hydrogels: Combining Hydrophobicity and Directed Hydrogen Bonding. *Macromolecules*, **2017**, 50, 9058-9065 | 5.5 | 28 |
| 158 | Novel porphyrin□viologen rotaxanes. *Chemical Communications*, **1998**, 611-612 | 5.8 | 28 |
| 157 | Interlocked porphyrin switches. *Chemistry - A European Journal*, **2013**, 19, 7758-70 | 4.8 | 27 |
| 156 | Synthesis, Characterization, and Surface Initiated Polymerization of Carbazole Functionalized Isocyanides. *Chemistry of Materials*, **2010**, 22, 2597-2607 | 9.6 | 26 |
| 155 | Synthesis, characterization, and folding behavior of beta-amino acid derived polyisocyanides. *Chemistry - A European Journal*, **2006**, 12, 2778-86 | 4.8 | 26 |
| 154 | Strong Binding of Paraquat and Polymeric Paraquat Derivatives by Basket-Shaped Hosts. *Angewandte Chemie International Edition in English*, **1995**, 34, 2132-2134 | | 26 |
| 153 | Fibrin-fiber architecture influences cell spreading and differentiation. *Cell Adhesion and Migration*, **2016**, 10, 495-504 | 3.2 | 25 |
| 152 | Nanoscale Study of Polymer Dynamics. *ACS Nano*, **2016**, 10, 1434-41 | 16.7 | 25 |
| 151 | Oligonucleotide tagging for copper-free click conjugation. *Molecules*, **2013**, 18, 7346-63 | 4.8 | 25 |
| 150 | Synthesis and Characterization of Surface-Initiated Helical Polyisocyanopeptide Brushes. *Macromolecules*, **2008**, 41, 1945-1951 | 5.5 | 25 |
| 149 | Noncontact liquid-crystal alignment by supramolecular amplification of nanogrooves. *Angewandte Chemie - International Edition*, **2003**, 42, 1812-5 | 16.4 | 25 |
| 148 | Stiffness versus architecture of single helical polyisocyanopeptides. *Chemical Science*, **2013**, 4, 2357 | 9.4 | 24 |
| 147 | Metal ion-exchange on the muscovite mica surface. *Surface Science*, **2017**, 665, 56-61 | 1.8 | 24 |
| 146 | Solvent-dependent amplification of chirality in assemblies of porphyrin trimers based on benzene tricarboxamide. *Chemical Communications*, **2012**, 48, 4371-3 | 5.8 | 24 |

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| 145 | Hydrogen bonding and chemical shift assignments in carbazole functionalized isocyanides from solid-state NMR and first-principles calculations. *Physical Chemistry Chemical Physics*, **2011**, 13, 13082-95 | 3.6 | 24 |
| 144 | Ligand-controlled magnetic interactions in Mn(4) clusters. *Inorganic Chemistry*, **2009**, 48, 11903-8 | 5.1 | 24 |
| 143 | 1H-1,2,3-Triazole: From Structure to Function and Catalysis. *Journal of Heterocyclic Chemistry*, **2017**, 54, 1677-1699 | 1.9 | 23 |
| 142 | Construction of functional porphyrin polystyrene nano-architectures by ATRP. *Chemical Communications*, **2005**, 60-2 | 5.8 | 23 |
| 141 | Single-Enzyme Kinetics of CALB-Catalyzed Hydrolysis. *Angewandte Chemie*, **2005**, 117, 566-570 | 3.6 | 23 |
| 140 | Mechanical and optical manipulation of porphyrin rings at the submicrometre scale. *Nanotechnology*, **2000**, 11, 16-23 | 3.4 | 23 |
| 139 | Multichromophoric phthalocyanine-(perylenediimide)(8) molecules: a photophysical study. *Chemistry - A European Journal*, **2010**, 16, 10021-9 | 4.8 | 22 |
| 138 | Investigation of Perylene Photonic Wires by Combined Single-Molecule Fluorescence and Atomic Force Microscopy. *Angewandte Chemie*, **2004**, 116, 4137-4141 | 3.6 | 22 |
| 137 | Adsorption and conformation of porphyrins on metallic surfaces. *Journal of Vacuum Science & Technology B*, **2009**, 27, 799 | | 21 |
| 136 | Cysteine-containing polyisocyanides as versatile nanoplatforms for chromophoric and bioscaffolding. *Chemistry - A European Journal*, **2010**, 16, 6176-86 | 4.8 | 21 |
| 135 | Controlled templating of porphyrins by a molecular command layer. *Langmuir*, **2011**, 27, 2644-51 | 4 | 20 |
| 134 | Supramolecular command surfaces for liquid crystal alignment. *Polymer International*, **2007**, 56, 1186-1191 | 3.3 | 20 |
| 133 | Synthesis and hierarchical self-assembly of cavity-containing facial amphiphiles. *Journal of Organic Chemistry*, **2003**, 68, 9040-9 | 4.2 | 20 |
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