List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Positive Allosteric Systems Designed on Dynamic Supramolecular Scaffolds:  Toward Switching and Amplification of Guest Affinity and Selectivity. Accounts of Chemical Research, 2001, 34, 494-503. | 7.6 | 402 |
| 2 | Installing logic-gate responses to a variety of biological substances in supramolecular hydrogel–enzyme hybrids. Nature Chemistry, 2014, 6, 511-518. | 6.6 | 370 |
| 3 | A Colorimetric and Ratiometric Fluorescent Chemosensor with Three Emission Changes: Fluoride Ion Sensing by a Triarylborane– Porphyrin Conjugate. Angewandte Chemie - International Edition, 2003, 42, 2036-2040. | 7.2 | 369 |
| 4 | Molecular Design of Artificial Molecular and Ion Recognition Systems with Allosteric Guest Responses. Accounts of Chemical Research, 2001, 34, 865-873. | 7.6 | 307 |
| 5 | Supramolecular Hydrogel Exhibiting Four Basic Logic Gate Functions To Fine-Tune Substance Release. Journal of the American Chemical Society, 2009, 131, 5580-5585. | 6.6 | 295 |
| 6 | Photo Gel–Sol/Sol–Gel Transition and Its Patterning of a Supramolecular Hydrogel as Stimuliâ€Responsive Biomaterials. Chemistry - A European Journal, 2008, 14, 3977-3986. | 1.7 | 208 |
| 7 | In situ real-time imaging of self-sorted supramolecular nanofibres. Nature Chemistry, 2016, 8, 743-752. | 6.6 | 191 |
| 8 | Rational Molecular Design of Stimulusâ€Responsive Supramolecular Hydrogels Based on Dipeptides. Advanced Materials, 2011, 23, 2819-2822. | 11.1 | 183 |
| 9 | MCMâ^'Enzymeâ^'Supramolecular Hydrogel Hybrid as a Fluorescence Sensing Material for Polyanions of Biological Significance. Journal of the American Chemical Society, 2009, 131, 5321-5330. | 6.6 | 168 |
| 10 | Construction of Double-Stranded Metallosupramolecular Polymers with a Controlled Helicity by Combination of Salt Bridges and Metal Coordination. Journal of the American Chemical Society, 2006, 128, 6806-6807. | 6.6 | 164 |
| 11 | An Attempt to Predict the Gelation Ability of Hydrogen-bond-based Gelators Utilizing a Glycoside Library. Tetrahedron, 2000, 56, 9595-9599. | 1.0 | 161 |
| 12 | Montmorilloniteâ^'Supramolecular Hydrogel Hybrid for Fluorocolorimetric Sensing of Polyamines. Journal of the American Chemical Society, 2011, 133, 1670-1673. | 6.6 | 159 |
| 13 | [60]Fullerene Can Reinforce the Organogel Structure of Porphyrin-Appended Cholesterol Derivatives: Novel Oddâ^'Even Effect of the (CH2)n Spacer on the Organogel Stability. Langmuir, 2001, 17, 5825-5833. | 1.6 | 140 |
| 14 | Unusual emission properties of a triphenylene-based organogel systemElectronic supplementary information (ESI) available: Characterization data for 1 and 2. Fig. S1: UV-Vis spectra of 1 and 2. Fig. S2: X-ray powder diffractograms of xerogels 1 and 2. Fig. S3: Transient fluorescence spectra and fluorescence decays of cyclohexane gel 1. See http://www.rsc.org/suppdata/cc/b3/b302415f/. Chemical | 2.2 | 124 |
| 15 | Communications, 2003, , 1354. Cooperative C60Binding to a Porphyrin Tetramer Arranged around ap-Terphenyl Axis in 1:2 Hostâ^'Guest Stoichiometry. Organic Letters, 2002, 4, 925-928. | 2.4 | 96 |
| 16 | Supramolecular hydrogel-based protein and chemosensor array. Lab on A Chip, 2010, 10, 3325. | 3.1 | 89 |
| 17 | A Luminescent Poly(phenylenevinylene)–Amylose Composite with Supramolecular Liquid Crystallinity. Angewandte Chemie - International Edition, 2006, 45, 6491-6495. | 7.2 | 88 |
| 18 | Synthesis of Complementary Double-Stranded Helical Oligomers through Chiral and Achiral Amidiniumâ^'Carboxylate Salt Bridges and Chiral Amplification in Their Double-Helix Formation. Journal of the American Chemical Society, 2011, 133, 3419-3432. | 6.6 | 88 |

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|----|---|-----|-----------|
| 19 | First Successful Molecular Design of an Artificial Lewis Oligosaccharide Binding System Utilizing Positive Homotropic Allosterism. Journal of the American Chemical Society, 2001, 123, 10239-10244. | 6.6 | 86 |
| 20 | Novel Oligosaccharide Binding to the Cerium(IV) Bis(porphyrinate) Double Decker: Effective Amplification of a Binding Signal through Positive Homotropic Allosterism. Angewandte Chemie - International Edition, 2000, 39, 3839-3842. | 7.2 | 84 |
| 21 | Allosteric Binding of an Ag+ Ion to Cerium(IV) Bis-porphyrinates Enhances the Rotational Activity of Porphyrin Ligands. Chemistry - A European Journal, 2002, 8, 5541-5550. | 1.7 | 84 |
| 22 | Supramolecular hydrogel capsule showing prostate specific antigen-responsive function for sensing and targeting prostate cancer cells. Chemical Science, 2010, 1, 491. | 3.7 | 75 |
| 23 | Instantaneous Inclusion of a Polynucleotide and Hydrophobic Guest Molecules into a Helical Core of Cationic β-1,3-Glucan Polysaccharide. Journal of the American Chemical Society, 2007, 129, 3979-3988. | 6.6 | 73 |
| 24 | Efficient chirality transcription utilizing a cerium(IV) double decker porphyrin: a prototype for development of a molecular memory system. Journal of the Chemical Society Perkin Transactions 1, 1999, , 3259-3264. | 0.9 | 72 |
| 25 | Photo-responsive gel droplet as a nano- or pico-litre container comprising a supramolecular hydrogel. Chemical Communications, 2008, , 1545. | 2.2 | 72 |
| 26 | Allosteric Silver(I) Ion Binding with Peripheral π Clefts of a Ce(IV) Double Decker Porphyrin. Organic Letters, 2000, 2, 1803-1805. | 2.4 | 68 |
| 27 | Title is missing!. Angewandte Chemie, 2003, 115, 2082-2086. | 1.6 | 68 |
| 28 | Hierarchical Self-Assembly of a Bow-Shaped Molecule Bearing Self-Complementary Hydrogen Bonding Sites into Extended Supramolecular Assemblies. Chemistry - A European Journal, 2005, 11, 662-668. | 1.7 | 64 |
| 29 | A supramolecular hydrogel containing boronic acid-appended receptor for fluorocolorimetric sensing of polyols with a paper platform. Chemical Communications, 2012, 48, 2716. | 2.2 | 59 |
| 30 | A porphyrin-based gelator assembly which is reinforced by peripheral urea groups and chirally twisted by chiral urea additives. Tetrahedron Letters, 2002, 43, 3751-3755. | 0.7 | 57 |
| 31 | Twoâ€Photonâ€Responsive Supramolecular Hydrogel for Controlling Materials Motion in Micrometer Space. Angewandte Chemie - International Edition, 2014, 53, 7264-7267. | 7.2 | 57 |
| 32 | Meterâ€Long and Robust Supramolecular Strands Encapsulated in Hydrogel Jackets. Angewandte Chemie - International Edition, 2012, 51, 1553-1557. | 7.2 | 55 |
| 33 | Rod-like architecture and helicity of the poly(C)/schizophyllan complex observed by AFM and SEM. Carbohydrate Research, 2004, 339, 251-258. | 1.1 | 51 |
| 34 | Photoresponsive double-stranded helices composed of complementary strands. Chemical Communications, 2007, , 3174. | 2.2 | 48 |
| 35 | Synthesis of New Diaryl-Substituted Triple-Decker and Tetraaryl-substituted Double-Decker Lanthanum(III) Porphyrins and Their Porphyrin Ring Rotational Speed as Compared with that of Double-Decker Cerium(IV) Porphyrins. Bulletin of the Chemical Society of Japan, 2001, 74, 739-746. | 2.0 | 45 |
| 36 | Heatâ€Induced Morphological Transformation of Supramolecular Nanostructures by Retroâ€Diels–Alder Reaction. Chemistry - A European Journal, 2012, 18, 13091-13096. | 1.7 | 45 |

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|----|--|-----|-----------|
| 37 | Supramolecular hydrogels based on bola-amphiphilic glycolipids showing color change in response to glycosidases. Chemical Communications, 2013, 49, 2115-2117. | 2.2 | 45 |
| 38 | The First Example of Positive Allosterism in an Aqueous Saccharide-Binding System Designed on a Ce(IV) Bis(porphyrinate) Double Decker Scaffold. Tetrahedron, 2000, 56, 4717-4723. | 1.0 | 43 |
| 39 | Meso–meso-linked porphyrin dimer as a novel scaffold for the selective binding of oligosaccharides. Chemical Communications, 2000, , 1047-1048. | 2.2 | 40 |
| 40 | Stimuli-responsive supramolecular systems guided by chemical reactions. Polymer Journal, 2019, 51, 371-380. | 1.3 | 39 |
| 41 | Strong Positive Allosterism which Appears in Molecular Recognition with Cerium(IV) Double Decker Porphyrins: Correlation between the Number of Binding Sites and Hill Coefficients. Supramolecular Chemistry, 2000, 12, 321-345. | 1.5 | 38 |
| 42 | Stiff, Multistimuliâ€Responsive Supramolecular Hydrogels as Unique Molds for 2D/3D Microarchitectures of Live Cells. Chemistry - an Asian Journal, 2011, 6, 2368-2375. | 1.7 | 37 |
| 43 | Allosteric Binding of K+to Crown Ether Macrocycles Appended to a Lanthanum Double Decker System. Bulletin of the Chemical Society of Japan, 2001, 74, 883-888. | 2.0 | 35 |
| 44 | Preparation of supramolecular hydrogel–enzyme hybrids exhibiting biomolecule-responsive gel degradation. Nature Protocols, 2016, 11, 1744-1756. | 5.5 | 35 |
| 45 | Self-assembly and hydrogel formation ability of Fmoc-dipeptides comprising α-methyl-L-phenylalanine. Polymer Journal, 2020, 52, 923-930. | 1.3 | 35 |
| 46 | Threeâ€Dimensional Encapsulation of Live Cells by Using a Hybrid Matrix of Nanoparticles in a Supramolecular Hydrogel. Chemistry - A European Journal, 2008, 14, 10808-10815. | 1.7 | 33 |
| 47 | The effect of carbohydrate structures on the hydrogelation ability and morphology of self-assembled structures of peptide–carbohydrate conjugates in water. Organic and Biomolecular Chemistry, 2017, 15, 4595-4600. | 1.5 | 32 |
| 48 | Ring rotation controversy in cerium(IV) bis(tetraarylporphyrinate) double deckers: HPLC evidence for the question to rotate or not to rotate. Tetrahedron Letters, 1998, 39, 7897-7900. | 0.7 | 31 |
| 49 | Imaging-Based Study on Control Factors over Self-Sorting of Supramolecular Nanofibers Formed from Peptide- and Lipid-type Hydrogelators. Bioconjugate Chemistry, 2018, 29, 2058-2067. | 1.8 | 29 |
| 50 | Metal ion induced allosteric transition in the catalytic activity of an artificial phosphodiesteraseElectronic supplementary information (ESI) available: synthesis of 1, characterization of complexes by 1H-NMR and ESI-MS spectroscopies and the analysis of the kinetic data. See http://www.rsc.org/suppdata/cc/b3/b314032f/. Chemical Communications, 2004, , 420. | 2.2 | 28 |
| 51 | Fluidic supramolecular nano- and microfibres as molecular rails for regulated movement of nanosubstances. Nature Communications, 2010, 1, 20. | 5.8 | 28 |
| 52 | Metal ion induced allosteric transition in the catalytic activity of an artificial phosphodiesterase. Organic and Biomolecular Chemistry, 2008, 6, 493-499. | 1.5 | 26 |
| 53 | A porphyrin tetramer for a positive homotropic allosteric recognition system: efficient binding information transduction through butadiynyl axis rotation. Tetrahedron Letters, 2001, 42, 7435-7438. | 0.7 | 23 |
| 54 | β-1,3-Glucan (Schyzophyllan) Can Act as a One-Dimensional Host for Creating Chirally Twisted Poly(p-phenylene Ethynylene). Supramolecular Chemistry, 2007, 19, 107-113. | 1.5 | 23 |

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|----|--|-----|-----------|
| 55 | Efficient Anion Binding to Cerium(IV) Bis(porphyrinate) Double Decker Utilizing Positive Homotropic Allosterism. Chemistry Letters, 2001, 30, 520-521. | 0.7 | 22 |
| 56 | TICT Induced Fluorescence Color Change Actualized in an Organogel System. Chemistry Letters, 2004, 33, 1124-1125. | 0.7 | 22 |
| 57 | Chemical stimulus-responsive supramolecular hydrogel formation and shrinkage of a hydrazone-containing short peptide derivative. Soft Matter, 2020, 16, 899-906. | 1.2 | 21 |
| 58 | Hybrid Soft Nanomaterials Composed of DNA Microspheres and Supramolecular Nanostructures of Semiâ€artificial Glycopeptides. Chemistry - A European Journal, 2019, 25, 11955-11962. | 1.7 | 20 |
| 59 | Design of peptide-based bolaamphiphiles exhibiting heat-set hydrogelation via retro-Diels–Alder reaction. Journal of Materials Chemistry B, 2014, 2, 1464. | 2.9 | 18 |
| 60 | Reductionâ€Responsive Guanine Incorporated into Gâ€Quadruplexâ€Forming DNA. ChemBioChem, 2016, 17, 1304-1307. | 1.3 | 17 |
| 61 | Mechanical Reinforcement of Supramolecular Hydrogel through Incorporation of Multiple Noncovalent Interactions. Chemistry Letters, 2011, 40, 198-200. | 0.7 | 16 |
| 62 | Chemically Caged Nucleic Acids. Chemistry Letters, 2017, 46, 634-640. | 0.7 | 16 |
| 63 | A stimuli-responsive DNAzyme displaying Boolean logic-gate responses. Chemical Communications, 2019, 55, 1959-1962. | 2.2 | 16 |
| 64 | Complex formation between cationic β-1,3-glucan and hetero-sequence oligodeoxynucleotide and its delivery into macrophage-like cells to induce cytokine secretion. Organic and Biomolecular Chemistry, 2007, 5, 2219-2224. | 1.5 | 14 |
| 65 | Development of an Amino Sugar-Based Supramolecular Hydrogelator with Reduction Responsiveness. Jacs Au, 2021, 1, 1639-1646. | 3.6 | 13 |
| 66 | Controlled Stability of the Tripleâ€Stranded Helical Structure of a βâ€1,3â€Glucan with a Chromophoric Aromatic Moiety at a Peripheral Position. Chemistry - an Asian Journal, 2007, 2, 1290-1298. | 1.7 | 12 |
| 67 | Bioinspired Supramolecular Materials. Bulletin of the Chemical Society of Japan, 2013, 86, 10-24. | 2.0 | 12 |
| 68 | Allosteric saccharide sensing by a phenylboronic-acids-appended 5,15-Bis(triarylethynyl)porphyrin. Journal of Supramolecular Chemistry, 2002, 2, 133-142. | 0.4 | 11 |
| 69 | Electropolymerization of Bithienyl-appended Cerium(III) Triple Decker Porphyrin Complex. Chemistry Letters, 2003, 32, 264-265. | 0.7 | 11 |
| 70 | One-Pot Construction of Multicomponent Supramolecular Materials Comprising Self-Sorted Supramolecular Architectures of DNA and Semi-Artificial Glycopeptides. ACS Applied Bio Materials, 2020, 3, 9082-9092. | 2.3 | 11 |
| 71 | Dynamic Rotational Oscillation of Cerium(IV) Bis(porphyrinate) and Its Control by Diamine Guest Binding with Positive Homotropic Allosterism. European Journal of Organic Chemistry, 2007, 2007, 1883-1886. | 1.2 | 10 |
| 72 | Supramolecular Architectures of Nucleic Acid/Peptide Hybrids. International Journal of Molecular Sciences, 2020, 21, 9458. | 1.8 | 10 |

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|----|--|-----|-----------|
| 73 | Mechanical Reinforcement of a Supramolecular Hydrogel Comprising an Artificial Glycoâ€Lipid through Supramolecular Copolymerization. Macromolecular Bioscience, 2008, 8, 1019-1025. | 2.1 | 9 |
| 74 | Reduction-Responsive DNA Duplex Containing <i>O</i> ⁶ -Nitrobenzyl-Guanine. ACS Omega, 2018, 3, 9267-9275. | 1.6 | 9 |
| 75 | Structural diversification of bola-amphiphilic glycolipid-type supramolecular hydrogelators exhibiting colour changes along with the gel–sol transition. Soft Matter, 2020, 16, 7274-7278. | 1.2 | 9 |
| 76 | Synthesis of ethynylbenzene-substituted glycol as a versatile probe for labeling oligonucleotides. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1519-1522. | 1.0 | 8 |
| 77 | New solid phase submonomer synthesis of arylopeptoid oligomers using reductive amination. Tetrahedron Letters, 2015, 56, 6726-6729. | 0.7 | 8 |
| 78 | Practical and Reliable Synthesis of 1,2-Dideoxy- <scp>d</scp> -ribofuranose and its Application in RNAi Studies. Nucleosides, Nucleotides and Nucleic Acids, 2016, 35, 64-75. | 0.4 | 8 |
| 79 | Application of Soluble Poly(phenylenevinylene) Wrapped in Amylose to Organic Light-Emitting Diodes. Molecular Crystals and Liquid Crystals, 2007, 471, 29-38. | 0.4 | 7 |
| 80 | Cyclic arylopeptoid oligomers: synthesis and conformational propensities of peptide-mimetic aromatic macrocycles. Organic and Biomolecular Chemistry, 2018, 16, 8505-8512. | 1.5 | 7 |
| 81 | Nucleic acid-based fluorescent sensor systems: a review. Polymer Journal, 2022, 54, 751-766. | 1.3 | 7 |
| 82 | Porphyrin Polygons: A New Synthetic Strategy for Cyclic Porphyrin Oligomers Utilizing a Porphyrin Double Decker Structure. Chemistry Letters, 2001, 30, 1266-1267. | 0.7 | 6 |
| 83 | Construction of a reduction-responsive oligonucleotide via a post-modification approach utilizing 4-nitrophenyl diazomethane. Polymer Journal, 2021, 53, 741-746. | 1.3 | 6 |
| 84 | Nucleobase azide–ethynylribose click chemistry contributes to stabilizing oligonucleotide duplexes and stem-loop structures. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2655-2658. | 1.0 | 5 |
| 85 | Introduction of 2- O -benzyl abasic nucleosides to the 3′-overhang regions of siRNAs greatly improves nuclease resistance. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 5454-5456. | 1.0 | 5 |
| 86 | Effect of side chain phenyl group on the selfâ€assembled morphology of dipeptide hydrazides. Peptide Science, 2021, 113, e24200. | 1.0 | 5 |
| 87 | Construction of Nonlinear Response Systems Utilizing Molecular Machines Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2002, 60, 1201-1209. | 0.0 | 5 |
| 88 | Construction of a Reductionâ€responsive DNA Microsphere using a Reductionâ€eleavable Spacer based on a Nitrobenzene Scaffold. Chemistry - an Asian Journal, 2022, 17, . | 1.7 | 5 |
| 89 | Pro-apoptotic Peptide Amphiphile Self-assembled with the Assistance of Polycations. Chemistry Letters, 2015, 44, 1137-1139. | 0.7 | 4 |
| 90 | Synthesis of self-assembling arylopeptoid bearing hydrophilic polymer on the basis of soluble polymer-supported liquid-phase synthesis. Tetrahedron, 2016, 72, 6886-6891. | 1.0 | 4 |

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|-----|--|-----------------|----------------------|
| 91 | Polymer-based biosensor for estrogenic endocrine-disrupting chemicals in water. International Journal of Environmental Analytical Chemistry, 2022, 102, 1963-1986. | 1.8 | 4 |
| 92 | Synthesis and Self-Assembly Properties of Bola-Amphiphilic Glycosylated Lipopeptide-Type Supramolecular Hydrogels Showing Colour Changes Along with Gel–Sol Transition. International Journal of Molecular Sciences, 2021, 22, 1860. | 1.8 | 4 |
| 93 | Sulfonamide antibiotics inhibit RNAi by binding to human Argonaute protein 2 PAZ. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127637. | 1.0 | 3 |
| 94 | Feasible study on poly(Pyrrole-co-Pyrrole-3-Carboxylic Acid)-modified electrode for detection of 17β-Estradiol. Chemical Papers, 2021, 75, 3493-3503. | 1.0 | 3 |
| 95 | Introduction of an Oxidation-responsive 4-Boronobenzyl Group into an Oligonucleotide through a Postmodification Approach. Chemistry Letters, 2021, 50, 1412-1415. | 0.7 | 3 |
| 96 | Installing Reduction Responsiveness into Biomolecules by Introducing Nitroaryl Groups. Chemistry - A European Journal, 2022, 28, . | 1.7 | 3 |
| 97 | Additions and corrections published in 2011. Organic and Biomolecular Chemistry, 2011, 9, 8504. | 1.5 | 2 |
| 98 | Allosteric binding of an Ag+ ion to cerium(IV) bis-porphyrinates enhances the rotational activity of porphyrin ligands. Chemistry - A European Journal, 2002, 8, 5542-50. | 1.7 | 2 |
| 99 | Formation of Supramolecular Nanostructures through in Situ Selfâ€Assembly and Postâ€Assembly Modification of a Biocatalytically Constructed Dipeptide Hydrazide**. Chemistry - A European Journal, 2022, 28, . | 1.7 | 1 |
| 100 | Construction of Nonlinear Response Systems Utilizing Molecular Machines. ChemInform, 2003, 34, no. | 0.1 | 0 |
| 101 | 2P-157 BIOMIMETIC FUNCTIONAL FIBROUS GEL CONSTRUCTED BY HIERARCHICAL SUPRAMOLECULAR ASSEMBLY OF ORGANIC MOLECULES(Cell biology,The 47th Annual Meeting of the Biophysical Society of) Tj ET(| Qqb.b0.7 | 84 3 014 rgBT |
| 102 | MEMS meets supramolecules: Aligning supramolecular fibers within hydrogel strand using a microfluidic channel. , 2010, , . | | 0 |
| 103 | Titelbild: Meter-Long and Robust Supramolecular Strands Encapsulated in Hydrogel Jackets (Angew.) Tj ETQq1 1 | 0.784314 1.6 | 4 rgBT /Overl |
| 104 | (Invited) Stimuli-Responsive Supramolecular Hydrogels. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |