# Nico A J M Sommerdijk

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 253 papers | 20,290 citations | 10986 71 h-index | 11939 134 g-index |
| 280 all docs | 280 docs citations | 280 times ranked | 20892 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Crystallization by particle attachment in synthetic, biogenic, and geologic environments. Science, 2015, 349, aaa6760. | 12.6 | 1,467 |
| 2 | The role of collagen in bone apatite formation in the presence of hydroxyapatite nucleation inhibitors. Nature Materials, 2010, 9, 1004-1009. | 27.5 | 960 |
| 3 | Chiral Architectures from Macromolecular Building Blocks. Chemical Reviews, 2001, 101, 4039-4070. | 47.7 | 857 |
| 4 | The Initial Stages of Template-Controlled CaCO <sub>3</sub> Formation Revealed by Cryo-TEM. Science, 2009, 323, 1455-1458. | 12.6 | 831 |
| 5 | The role of prenucleation clusters in surface-induced calcium phosphate crystallization. Nature Materials, 2010, 9, 1010-1014. | 27.5 | 623 |
| 6 | Ion-association complexes unite classical and non-classical theories for the biomimetic nucleation of calcium phosphate. Nature Communications, 2013, 4, 1507. | 12.8 | 602 |
| 7 | Helical Superstructures from Charged Poly(styrene)-Poly(isocyanodipeptide) Block Copolymers. Science, 1998, 280, 1427-1430. | 12.6 | 588 |
| 8 | Nucleation and growth of magnetite from solution. Nature Materials, 2013, 12, 310-314. | 27.5 | 583 |
| 9 | Biomineralization as an Inspiration for Materials Chemistry. Angewandte Chemie - International Edition, 2012, 51, 6582-6596. | 13.8 | 426 |
| 10 | A virus-based single-enzyme nanoreactor. Nature Nanotechnology, 2007, 2, 635-639. | 31.5 | 406 |
| 11 | Biomimetic CaCO<sub>3</sub> Mineralization using Designer Molecules and Interfaces. Chemical Reviews, 2008, 108, 4499-4550. | 47.7 | 400 |
| 12 | Calcium carbonate nucleation driven by ion binding in a biomimetic matrix revealed by in situ electron microscopy. Nature Materials, 2015, 14, 394-399. | 27.5 | 353 |
| 13 | beta -Helical Polymers from Isocyanopeptides. Science, 2001, 293, 676-680. | 12.6 | 290 |
| 14 | New micellar morphologies from amphiphilic block copolymers: disks, toroids and bicontinuous micelles. Polymer Chemistry, 2011, 2, 1018-1028. | 3.9 | 269 |
| 15 | Hierarchical Formation of Supramolecular Transient Networks in Water: A Modular Injectable Delivery System. Advanced Materials, 2012, 24, 2703-2709. | 21.0 | 247 |
| 16 | Glucose-oxidase Based Self-Destructing Polymeric Vesicles. Langmuir, 2004, 20, 3487-3491. | 3.5 | 228 |
| 17 | In vitro models of collagen biomineralization. Journal of Structural Biology, 2013, 183, 258-269. | 2.8 | 215 |
| 18 | Imaging of Selfâ€Assembled Structures: Interpretation of TEM and Cryoâ€TEM Images. Angewandte Chemie - International Edition, 2010, 49, 7850-7858. | 13.8 | 202 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Conducting Polymers with Confined Dimensions: Track-Etch Membranes for Amperometric Biosensor Applications. Advanced Materials, 2002, 14, 1779-1782. | 21.0 | 189 |
| 20 | Liquidâ€“liquid phase separation during amphiphilic self-assembly. Nature Chemistry, 2019, 11, 320-328. | 13.6 | 185 |
| 21 | A classical view on nonclassical nucleation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7882-E7890. | 7.1 | 181 |
| 22 | Poly(3,4-ethylenedioxythiophene)-Based Glucose Biosensors. Advanced Materials, 2001, 13, 1555. | 21.0 | 178 |
| 23 | The Formation of Well-Defined Hollow Silica Spheres with Multilamellar Shell Structure. Advanced Materials, 2003, 15, 1097-1100. | 21.0 | 167 |
| 24 | Highly Luminescent CdTe/CdSe Colloidal Heteronanocrystals with Temperature-Dependent Emission Color. Journal of the American Chemical Society, 2007, 129, 14880-14886. | 13.7 | 167 |
| 25 | Nucleation and Growth of Monodisperse Silica Nanoparticles. Nano Letters, 2014, 14, 1433-1438. | 9.1 | 165 |
| 26 | Hollow Silica Spheres with an Ordered Pore Structure and Their Application in Controlled Release Studies. Chemistry - A European Journal, 2006, 12, 1448-1456. | 3.3 | 153 |
| 27 | Investigating materials formation with liquid-phase and cryogenic TEM. Nature Reviews Materials, 2016, 1, . | 48.7 | 153 |
| 28 | Molecular nucleation mechanisms and control strategies for crystal polymorph selection. Nature, 2018, 556, 89-94. | 27.8 | 150 |
| 29 | Design and self-assembly of simple coat proteins for artificial viruses. Nature Nanotechnology, 2014, 9, 698-702. | 31.5 | 146 |
| 30 | SARS-CoV-2 infects the human kidney and drives fibrosis in kidney organoids. Cell Stem Cell, 2022, 29, 217-231.e8. | 11.1 | 146 |
| 31 | A Reduced SNARE Model for Membrane Fusion. Angewandte Chemie - International Edition, 2009, 48, 2330-2333. | 13.8 | 145 |
| 32 | Giant Amphiphiles by Cofactor Reconstitution. Angewandte Chemie - International Edition, 2002, 41, 4239-4241. | 13.8 | 141 |
| 33 | Self-assembly of soft nanoparticles with tunable patchiness. Nature Nanotechnology, 2009, 4, 721-726. | 31.5 | 129 |
| 34 | Think Positive: Phase Separation Enables a Positively Charged Additive to Induce Dramatic Changes in Calcium Carbonate Morphology. Advanced Functional Materials, 2012, 22, 907-915. | 14.9 | 128 |
| 35 | Self-Assembled Structures from an Amphiphilic Multiblock Copolymer Containing Rigid Semiconductor Segments. Macromolecules, 2000, 33, 8289-8294. | 4.8 | 122 |
| 36 | Poly(pyrrole) versus poly(3,4-ethylenedioxythiophene): implications for biosensor applications. Sensors and Actuators B: Chemical, 2005, 106, 289-295. | 7.8 | 117 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Self-Assembled Hybrid Oligo(p-phenylenevinylene)â€“Gold Nanoparticle Tapes. Angewandte Chemie - International Edition, 2007, 46, 1825-1828. | 13.8 | 117 |
| 38 | In situ techniques in biomimetic mineralization studies of calcium carbonate. Chemical Society Reviews, 2010, 39, 397-409. | 38.1 | 117 |
| 39 | A Shape-Persistent Polymeric Crystallization Template for CaCO3. Journal of the American Chemical Society, 2002, 124, 9700-9701. | 13.7 | 112 |
| 40 | Mesoporous Silica Nanoparticles with Large Pores for the Encapsulation and Release of Proteins. ACS Applied Materials & Interfaces, 2016, 8, 32211-32219. | 8.0 | 111 |
| 41 | Amorphous calcium carbonate stabilised by poly(propylene imine) dendrimers. Chemical Communications, 2000, , 1937-1938. | 4.1 | 108 |
| 42 | Induced Supramolecular Chirality in Nanostructured Materials:â€‰Ionic Self-Assembly of Perylene-Chiral Surfactant Complexes. Chemistry of Materials, 2006, 18, 1839-1847. | 6.7 | 108 |
| 43 | The Development of Morphology and Structure in Hexagonal Vaterite. Journal of the American Chemical Society, 2010, 132, 11560-11565. | 13.7 | 107 |
| 44 | Trained Immunity-Promoting Nanobiologic Therapy Suppresses Tumor Growth and Potentiates Checkpoint Inhibition. Cell, 2020, 183, 786-801.e19. | 28.9 | 101 |
| 45 | Oligo(p-phenylenevinylene)â^Peptide Conjugates: Synthesis and Self-Assembly in Solution and at the Solidâ^Liquid Interface. Journal of the American Chemical Society, 2008, 130, 14576-14583. | 13.7 | 100 |
| 46 | Microscopic structure of the polymer-induced liquid precursor for calcium carbonate. Nature Communications, 2018, 9, 2582. | 12.8 | 100 |
| 47 | Cryo Electron Tomography Reveals Confined Complex Morphologies of Tripeptideâ€Containing Amphiphilic Doubleâ€Comb Diblock Copolymers. Angewandte Chemie - International Edition, 2008, 47, 8859-8862. | 13.8 | 99 |
| 48 | Bioinspired synthesis of magnetite nanoparticles. Chemical Society Reviews, 2016, 45, 5085-5106. | 38.1 | 97 |
| 49 | Fabrication, characterization, and biological assessment of multilayered DNA-coatings for biomaterial purposes. Biomaterials, 2006, 27, 691-701. | 11.4 | 96 |
| 50 | Aggregation Behavior of Giant Amphiphiles Prepared by Cofactor Reconstitution. Chemistry - A European Journal, 2006, 12, 6071-6080. | 3.3 | 94 |
| 51 | Interconnective Hostâ^Guest Complexation of Î²-Cyclodextrinâ^Calix[4]arene Couples. Journal of the American Chemical Society, 1999, 121, 28-33. | 13.7 | 93 |
| 52 | Directed assembly of optoelectronically active alkylâ€“Ï€-conjugated molecules by adding n-alkanes or Ï€-conjugated species. Nature Chemistry, 2014, 6, 690-696. | 13.6 | 92 |
| 53 | Temperature-Responsive Nanospheres with Bicontinuous Internal Structures from a Semicrystalline Amphiphilic Block Copolymer. Journal of the American Chemical Society, 2010, 132, 10256-10259. | 13.7 | 91 |
| 54 | Highly Ordered Structures of Amphiphilic Polythiophenes in Aqueous Media. Macromolecules, 2002, 35, 1054-1059. | 4.8 | 90 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Control over Calcium Carbonate Phase Formation by Dendrimer/Surfactant Templates. Chemistry - A European Journal, 2002, 8, 2561. | 3.3 | 90 |
| 56 | A Quasi-Time-Resolved CryoTEM Study of the Nucleation of CaCO<sub>3</sub>under Langmuir Monolayers. Journal of the American Chemical Society, 2008, 130, 4034-4040. | 13.7 | 90 |
| 57 | Intermolecular channels direct crystal orientation in mineralized collagen. Nature Communications, 2020, 11, 5068. | 12.8 | 90 |
| 58 | Salinity-dependent diatom biosilicification implies an important role of external ionic strength. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10441-10446. | 7.1 | 88 |
| 59 | Silica-based hybrid materials as biocompatible coatings for glucose sensors. Sensors and Actuators B: Chemical, 2001, 81, 68-75. | 7.8 | 87 |
| 60 | Insights into Templated Supramolecular Polymerization: Binding of Naphthalene Derivatives to ssDNA Templates of Different Lengths. Journal of the American Chemical Society, 2009, 131, 1222-1231. | 13.7 | 86 |
| 61 | Aligned Growth of Calcite Crystals on a Self-Assembled Monolayer. Advanced Materials, 2002, 14, 492-495. | 21.0 | 85 |
| 62 | Noncovalent Triblock Copolymers Based on a Coiled-Coil Peptide Motif. Journal of the American Chemical Society, 2008, 130, 9386-9393. | 13.7 | 85 |
| 63 | Influence of inflammatory cells and serum on the performance of implantable glucose sensors. Journal of Biomedical Materials Research Part B, 2001, 54, 69-75. | 3.1 | 84 |
| 64 | Protein-Polymer Hybrid Amphiphiles. Angewandte Chemie - International Edition, 2001, 40, 4732-4734. | 13.8 | 82 |
| 65 | CryoTEM as an Advanced Analytical Tool for Materials Chemists. Accounts of Chemical Research, 2017, 50, 1495-1501. | 15.6 | 82 |
| 66 | Morphological control and molecular recognition by bis-urea hydrogen bonding in micelles of amphiphilic tri-block copolymers. Chemical Communications, 2005, , 4967. | 4.1 | 81 |
| 67 | Osteoporotic Bone Recovery by a Highly Boneâ€Inductive Calcium Phosphate Polymerâ€Induced Liquidâ€Precursor. Advanced Science, 2019, 6, 1900683. | 11.2 | 80 |
| 68 | Functionalization of multilayered DNA-coatings with bone morphogenetic protein 2. Journal of Controlled Release, 2006, 113, 63-72. | 9.9 | 78 |
| 69 | Crystallization by particle attachment is a colloidal assembly process. Nature Materials, 2020, 19, 391-396. | 27.5 | 78 |
| 70 | Bioinspired synthesis of mesoporous silicas. Current Opinion in Solid State and Materials Science, 2004, 8, 111-120. | 11.5 | 76 |
| 71 | Stereodependent Fusion and Fission of Vesicles:Â Calcium Binding of Synthetic Gemini Phospholipids Containing Two Phosphate Groups. Journal of the American Chemical Society, 1997, 119, 4338-4344. | 13.7 | 75 |
| 72 | Liquidâ€Phase Electron Microscopy for Soft Matter Science and Biology. Advanced Materials, 2020, 32, e2001582. | 21.0 | 75 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Three-Dimensional Structure of P3HT Assemblies in Organic Solvents Revealed by Cryo-TEM. Nano Letters, 2014, 14, 2033-2038. | 9.1 | 74 |
| 74 | The role of the amorphous phase on the biomimetic mineralization of collagen. Faraday Discussions, 2012, 159, 357. | 3.2 | 73 |
| 75 | Oriented Crystallization of Calcium Carbonate under Self-Organized Monolayers of Amide-Containing Phospholipids. Langmuir, 2001, 17, 3623-3628. | 3.5 | 72 |
| 76 | Dendrimer-Based Hydroxyapatite Composites with Remarkable Materials Properties. Advanced Materials, 2003, 15, 313-316. | 21.0 | 67 |
| 77 | Self-Organizing Î²-Sheet Lipopeptide Monolayers as Template for the Mineralization of CaCO3. Angewandte Chemie - International Edition, 2006, 45, 739-744. | 13.8 | 67 |
| 78 | Anionic Lipid Nanoparticles Preferentially Deliver mRNA to the Hepatic Reticuloendothelial System. Advanced Materials, 2022, 34, e2201095. | 21.0 | 66 |
| 79 | Template Adaptability Is Key in the Oriented Crystallization of CaCO3. Journal of the American Chemical Society, 2007, 129, 14058-14067. | 13.7 | 65 |
| 80 | High-Magnesian Calcite Mesocrystals: A Coordination Chemistry Approach. Journal of the American Chemical Society, 2012, 134, 1367-1373. | 13.7 | 65 |
| 81 | An Organoid for Woven Bone. Advanced Functional Materials, 2021, 31, 2010524. | 14.9 | 65 |
| 82 | The first example of a poly(ethylene oxide)â€“poly(methylphenylsilane) amphiphilic block copolymer: vesicle formation in water. Chemical Communications, 1998, , 1445-1446. | 4.1 | 64 |
| 83 | Molecular Recognition in Poly(Îµ-caprolactone)-Based Thermoplastic Elastomers. Biomacromolecules, 2006, 7, 3385-3395. | 5.4 | 64 |
| 84 | A Bioinspired Coprecipitation Method for the Controlled Synthesis of Magnetite Nanoparticles. Crystal Growth and Design, 2014, 14, 5561-5568. | 3.0 | 61 |
| 85 | Silicanin-1 is a conserved diatom membrane protein involved in silica biomineralization. BMC Biology, 2017, 15, 65. | 3.8 | 61 |
| 86 | Poly(3,4-ethylenedioxythiophene)-based copolymers for biosensor applications. Journal of Polymer Science Part A, 2002, 40, 738-747. | 2.3 | 58 |
| 87 | Calcium carbonate thin films as biomaterial coatings using DNA as crystallization inhibitor. CrystEngComm, 2007, 9, 1209. | 2.6 | 58 |
| 88 | Uniting Polypeptides with Sequence-Designed Peptides: Synthesis and Assembly of Poly(Î³-benzyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2370-2377. | 13.7 | 57 |
| 89 | Controlling Internal Pore Sizes in Bicontinuous Polymeric Nanospheres. Angewandte Chemie - International Edition, 2015, 54, 2457-2461. | 13.8 | 56 |
| 90 | Synthesis and characterization of polyisocyanides derived from alanine and glycine dipeptides. Journal of Polymer Science Part A, 2001, 39, 4255-4264. | 2.3 | 54 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Silver Nanoarrays Templated by Block Copolymers of Carbosilane Dendrimers and Polyisocyanopeptides. Advanced Materials, 2002, 14, 489-492. | 21.0 | 54 |
| 92 | Shaping Amorphous Calcium Carbonate Films into 2D Model Substrates for Bone Cell Culture. Angewandte Chemie - International Edition, 2006, 45, 1762-1767. | 13.8 | 54 |
| 93 | Cryo-electron tomography: 3-dimensional imaging of soft matter. Soft Matter, 2011, 7, 17-24. | 2.7 | 54 |
| 94 | Precipitation of Amorphous Calcium Oxalate in Aqueous Solution. Chemistry of Materials, 2015, 27, 3999-4007. | 6.7 | 53 |
| 95 | Controlled Supramolecular Oligomerization of C<sub>3</sub>â€Symmetrical Molecules in Water: The Impact of Hydrophobic Shielding. Chemistry - A European Journal, 2011, 17, 5193-5203. | 3.3 | 51 |
| 96 | Osmotically Shrunken LIPOCEST Agents: An Innovative Class of Magnetic Resonance Imaging Contrast Media Based on Chemical Exchange Saturation Transfer. Chemistry - A European Journal, 2009, 15, 1440-1448. | 3.3 | 50 |
| 97 | Gold Nanorods with Subâ€Nanometer Separation using Cucurbit[n]uril for SERS Applications. Small, 2014, 10, 4298-4303. | 10.0 | 50 |
| 98 | From bone regeneration to three-dimensional inÂvitro models: tissue engineering of organized bone extracellular matrix. Current Opinion in Biomedical Engineering, 2019, 10, 107-115. | 3.4 | 50 |
| 99 | Stepwise Noncovalent Synthesis Leading to Dendrimer-Based Assemblies in Water. Journal of the American Chemical Society, 2007, 129, 15631-15638. | 13.7 | 49 |
| 100 | Tunable Stimuliâ€Responsive Colorâ€Change Properties of Layered Organic Composites. Advanced Functional Materials, 2018, 28, 1804906. | 14.9 | 48 |
| 101 | Polymer-induced liquid precursor (PILP) phases of calcium carbonate formed in the presence of synthetic acidic polypeptidesâ€"relevance to biomineralization. Faraday Discussions, 2012, 159, 327. | 3.2 | 47 |
| 102 | One Peptide for Them All: Gold Nanoparticles of Different Sizes Are Stabilized by a Common Peptide Amphiphile. ACS Nano, 2020, 14, 5874-5886. | 14.6 | 47 |
| 103 | Stabilization of amorphous calcium carbonate by controlling its particle size. Nanoscale, 2010, 2, 2436. | 5.6 | 46 |
| 104 | Glucose sensitivity through oxidation responsiveness. An example of cascade-responsive nano-sensors. Journal of Materials Chemistry, 2005, 15, 4006. | 6.7 | 45 |
| 105 | Conformational analysis of dipeptide-derived polyisocyanides. Journal of Polymer Science Part A, 2003, 41, 1725-1736. | 2.3 | 44 |
| 106 | Controlling the Distribution of Supported Nanoparticles by Aqueous Synthesis. Chemistry of Materials, 2013, 25, 890-896. | 6.7 | 44 |
| 107 | The formation of gigantic hollow silica spheres from an EO76â€"PO29â€"EO76/butanol/ethanol/H2O quaternary system. Journal of Materials Chemistry, 2005, 15, 256-259. | 6.7 | 42 |
| 108 | Disk micelles from amphiphilic Janus gold nanoparticles. Chemical Communications, 2008, , 697-699. | 4.1 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Morphology, binding behavior and MRâ€properties of paramagnetic collagenâ€binding liposomes. Contrast Media and Molecular Imaging, 2009, 4, 81-88. | 0.8 | 42 |
| 110 | Complex morphologies of self-assembled block copolymer micelles in binary solvent mixtures: the role of solventâ€“solvent correlations. Soft Matter, 2011, 7, 6622. | 2.7 | 41 |
| 111 | Simulation of Calcium Phosphate Prenucleation Clusters in Aqueous Solution: Association beyond Ion Pairing. Crystal Growth and Design, 2019, 19, 6422-6430. | 3.0 | 41 |
| 112 | Spatial and temporal resolution in cryo-electron microscopyâ€”A scope for nano-chemistry. Current Opinion in Colloid and Interface Science, 2005, 10, 245-249. | 7.4 | 40 |
| 113 | Lessons from Natureâ€”Biomimetic Approaches to Minerals with Complex Structures. MRS Bulletin, 2010, 35, 116-121. | 3.5 | 40 |
| 114 | Mesoporous Silica Nanoparticle-Coated Microneedle Arrays for Intradermal Antigen Delivery. Pharmaceutical Research, 2017, 34, 1693-1706. | 3.5 | 40 |
| 115 | The detection of phenols in water using a surface plasmon resonance system with specific receptors. Sensors and Actuators B: Chemical, 1998, 51, 305-310. | 7.8 | 38 |
| 116 | Cationic Gemini Surfactants Based on Tartaric Acid: Synthesis, Aggregation, Monolayer Behaviour, and Interaction with DNA. European Journal of Organic Chemistry, 2002, 2002, 1397-1406. | 2.4 | 38 |
| 117 | Controlled Silica Synthesis Inspired by Diatom Silicon Biomineralization. Journal of Nanoscience and Nanotechnology, 2005, 5, 68-78. | 0.9 | 38 |
| 118 | Sol-gel entrapped materials for optical sensing of solvents and metal ions. Sensors and Actuators B: Chemical, 1997, 38, 48-52. | 7.8 | 37 |
| 119 | Multilayered DNA coatings: In vitro bioactivity studies and effects on osteoblast-like cell behavior. Acta Biomaterialia, 2007, 3, 587-596. | 8.3 | 36 |
| 120 | Peptide nanotube formation: a crystal growth process. Soft Matter, 2012, 8, 7463. | 2.7 | 36 |
| 121 | Bicontinuous Nanospheres from Simple Amorphous Amphiphilic Diblock Copolymers. Macromolecules, 2013, 46, 9845-9848. | 4.8 | 36 |
| 122 | ABA triblock copolymers: from controlled synthesis to controlled function. Journal of Materials Chemistry, 2003, 13, 2771-2778. | 6.7 | 35 |
| 123 | The Patterning and Alignment of Muscle Cells Using the Selective Adhesion of Poly(oligoethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 2324-2329. | 21.0 | 35 |
| 124 | Self-assembly of calcium phosphate nanoparticles into hollow spheres induced by dissolved amino acids. Journal of Materials Chemistry, 2011, 21, 9219. | 6.7 | 35 |
| 125 | Assessing internal structure of polymer assemblies from 2D to 3D CryoTEM: Bicontinuous micelles. Current Opinion in Colloid and Interface Science, 2012, 17, 343-349. | 7.4 | 35 |
| 126 | Aziridines as Precursors for Chiral Amide-Containing Surfactants. Journal of Organic Chemistry, 1997, 62, 4955-4960. | 3.2 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Two-Dimensional Ordered Î²-Sheet Lipopeptide Monolayers. Journal of the American Chemical Society, 2006, 128, 13959-13966. | 13.7 | 33 |
| 128 | Proteins as supramolecular hosts for C<sub>60</sub>: a true solution of C<sub>60</sub> in water. Nanoscale, 2018, 10, 9908-9916. | 5.6 | 33 |
| 129 | Bioinspired Magnetite Crystallization Directed by Random Copolypeptides. Advanced Functional Materials, 2015, 25, 711-719. | 14.9 | 32 |
| 130 | Hollow Block Copolymer Nanoparticles through a Spontaneous One-step Structural Reorganization. ACS Nano, 2013, 7, 1120-1128. | 14.6 | 31 |
| 131 | Writing Silica Structures in Liquid with Scanning Transmission Electron Microscopy. Small, 2015, 11, 585-590. | 10.0 | 31 |
| 132 | The Bis-urea Motif as a Tool To Functionalize Self-Assembled Nanoribbons. Journal of the American Chemical Society, 2005, 127, 16768-16769. | 13.7 | 30 |
| 133 | Supramolecular Double Helices from Small C<sub>3</sub>-Symmetrical Molecules Aggregated in Water. Journal of the American Chemical Society, 2020, 142, 17644-17652. | 13.7 | 30 |
| 134 | Kinetics of avidinâ€induced clearance of biotinylated bimodal liposomes for improved MR molecular imaging. Magnetic Resonance in Medicine, 2008, 60, 1444-1456. | 3.0 | 29 |
| 135 | Semi-crystalline block copolymer bicontinuous nanospheres for thermoresponsive controlled release. RSC Advances, 2014, 4, 26354-26358. | 3.6 | 29 |
| 136 | Structural adaptability in an organic template for CaCO3 mineralization. CrystEngComm, 2007, 9, 1192. | 2.6 | 28 |
| 137 | Well-Defined, Multifunctional Nanostructures of a Paramagnetic Lipid and a Lipopeptide for Macrophage Imaging. Journal of the American Chemical Society, 2009, 131, 406-407. | 13.7 | 28 |
| 138 | Control of magnetite nanocrystal morphology in magnetotactic bacteria by regulation of mms7 gene expression. Scientific Reports, 2016, 6, 29785. | 3.3 | 28 |
| 139 | Expression of Supramolecular Chirality in Aggregates of Chiral Amide-Containing Surfactants. Chemistry - A European Journal, 1998, 4, 127-136. | 3.3 | 27 |
| 140 | A printable glucose sensor based on a poly(pyrrole)-latex hybrid material. Sensors and Actuators B: Chemical, 2001, 80, 229-233. | 7.8 | 26 |
| 141 | Cyto- and histocompatibility of multilayered DNA-coatings on titanium. Journal of Biomedical Materials Research - Part A, 2006, 77A, 202-211. | 4.0 | 26 |
| 142 | Random Poly(Amino Acid)s Synthesized by Ring Opening Polymerization as Additives in the Biomimetic Mineralization of CaCO3. Polymers, 2012, 4, 1195-1210. | 4.5 | 26 |
| 143 | Graphene oxide single sheets as substrates for high resolution cryoTEM. Soft Matter, 2015, 11, 1265-1270. | 2.7 | 26 |
| 144 | Native Chemical Ligation for Cross-Linking of Flower-Like Micelles. Biomacromolecules, 2018, 19, 3766-3775. | 5.4 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Nucleation of protein mesocrystals via oriented attachment. Nature Communications, 2021, 12, 3902. | 12.8 | 25 |
| 146 | Copper(II) Complexes of a Dicephalic Imidazole Surfactant. Tunable Organization of Metalloaggregates. Langmuir, 1999, 15, 7008-7013. | 3.5 | 24 |
| 147 | Fabrication of Organicâ"Inorganic Semiconductor Composites Utilizing the Different Aggregation States of a Single Amphiphilic Dendrimer. Langmuir, 2002, 18, 2571-2576. | 3.5 | 24 |
| 148 | The binding of CNA35 contrast agents to collagen fibrils. Chemical Communications, 2011, 47, 1503-1505. | 4.1 | 24 |
| 149 | A roadmap for poly(ethylene oxide)â€blockâ€polyâ€Îµâ€caprolactone selfâ€assembly in water: Prediction, synthesis, and characterization. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 330-339. | 2.1 | 24 |
| 150 | Graphene Liquid Cells Assembled through Loopâ€Assisted Transfer Method and Located with Correlated Lightâ€Electron Microscopy. Advanced Functional Materials, 2020, 30, 1904468. | 14.9 | 24 |
| 151 | Determination of the helical sense in alanine based polyisocyanides. Macromolecular Chemistry and Physics, 2002, 203, 1625-1630. | 2.2 | 23 |
| 152 | The development of a glove-box/Vitrobot combination: Airâ€"water interface events visualized by cryo-TEM. Ultramicroscopy, 2008, 108, 1478-1483. | 1.9 | 23 |
| 153 | Visualizing order in dispersions and solid state morphology with Cryo-TEM and electron tomography: P3HTâ€‰:â€‰PCBM organic solar cells. Journal of Materials Chemistry A, 2015, 3, 5031-5040. | 10.3 | 23 |
| 154 | Bioinspired magnetite synthesis via solid precursor phases. Chemical Science, 2016, 7, 5624-5634. | 7.4 | 23 |
| 155 | Supramolecular expression of chirality in assemblies of gemini surfactants. Chemical Communications, 1997, , 1423-1424. | 4.1 | 22 |
| 156 | Biocompatible polystyrenes containing pendant tetra(ethylene glycol) and phosphorylcholine groups. Journal of Polymer Science Part A, 2001, 39, 468-474. | 2.3 | 22 |
| 157 | Giant Amphiphiles by Cofactor Reconstitution. Angewandte Chemie, 2002, 114, 4413-4415. | 2.0 | 22 |
| 158 | Crystal Design and Crystal Engineering. Angewandte Chemie - International Edition, 2003, 42, 3572-3574. | 13.8 | 22 |
| 159 | In Vitro and In Vivo Effects of Deoxyribonucleic Acidâ€"Based Coatings Funtionalized with Vascular Endothelial Growth Factor. Tissue Engineering, 2007, 13, 711-720. | 4.6 | 22 |
| 160 | Effect of pH on Complex Coacervate Core Micelles from Fe(III)-Based Coordination Polymer. Langmuir, 2011, 27, 14776-14782. | 3.5 | 22 |
| 161 | Stable ferrofluids of magnetite nanoparticles in hydrophobic ionic liquids. Nanotechnology, 2015, 26, 285602. | 2.6 | 22 |
| 162 | Understanding the Formation Mechanism of Magnetic Mesocrystals with (Cryo-)Electron Microscopy. Chemistry of Materials, 2019, 31, 7320-7328. | 6.7 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Silane-based hybrids for biomedical applications. Journal of Adhesion Science and Technology, 2002, 16, 143-155. | 2.6 | 21 |
| 164 | Insights in the Organization of DNAâ^'Surfactant Monolayers Using Cryo-Electron Tomography. Journal of the American Chemical Society, 2007, 129, 11894-11895. | 13.7 | 21 |
| 165 | Crystals competing for space. Nature Materials, 2014, 13, 1078-1079. | 27.5 | 21 |
| 166 | Enzymatic pH control for biomimetic deposition of calcium phosphate coatings. Acta Biomaterialia, 2014, 10, 931-939. | 8.3 | 21 |
| 167 | Partial Oxidation as a Rational Approach to Kinetic Control in Bioinspired Magnetite Synthesis. Chemistry - A European Journal, 2015, 21, 6150-6156. | 3.3 | 21 |
| 168 | Assembly and activation of supported cobalt nanocrystal catalysts for the Fischerâ€“Tropsch synthesis. Chemical Communications, 2018, 54, 2530-2533. | 4.1 | 21 |
| 169 | Silicon-based surface plasmon resonance chemical sensors. Sensors and Actuators B: Chemical, 1997, 38, 53-57. | 7.8 | 20 |
| 170 | A Triptyceneâ€Based Approach to Solubilising Carbon Nanotubes and C<sub>60</sub>. Chemistry - A European Journal, 2012, 18, 8716-8723. | 3.3 | 20 |
| 171 | Bioinspired magnetite formation from a disordered ferrihydrite-derived precursor. Faraday Discussions, 2015, 179, 215-225. | 3.2 | 19 |
| 172 | The evolution of bicontinuous polymeric nanospheres in aqueous solution. Soft Matter, 2016, 12, 4113-4122. | 2.7 | 19 |
| 173 | Combinatorial Evolution of Biomimetic Magnetite Nanoparticles. Advanced Functional Materials, 2017, 27, 1604863. | 14.9 | 19 |
| 174 | Cryo-TEM and electron tomography reveal leaching-induced pore formation in ZSM-5 zeolite. Journal of Materials Chemistry A, 2019, 7, 1442-1446. | 10.3 | 19 |
| 175 | Spontaneous organization of supracolloids into three-dimensional structured materials. Nature Materials, 2021, 20, 541-547. | 27.5 | 19 |
| 176 | Unexpected complexation behaviour of a solâ€“gel immobilised dye: the development of an optical copper(II) sensor. Journal of Materials Chemistry, 1998, 8, 565-567. | 6.7 | 18 |
| 177 | Fluorescein functionalized random amino acid copolymers in the biomimetic synthesis of CaCO3. Soft Matter, 2011, 7, 9685. | 2.7 | 18 |
| 178 | Poly(acrylic acid)-directed synthesis of colloidally stable single domain magnetite nanoparticles via partial oxidation. Journal of Magnetism and Magnetic Materials, 2016, 416, 366-372. | 2.3 | 18 |
| 179 | Aragonite formation in confinements: A step toward understanding polymorph control. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8469-8471. | 7.1 | 18 |
| 180 | Photocatalytic activity of exfoliated graphiteâ€“TiO<sub>2</sub> nanoparticle composites. Nanoscale, 2019, 11, 19301-19314. | 5.6 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Dicephalic surfactants. Chemical Communications, 1998, , 743-744. | 4.1 | 17 |
| 182 | Surface-Induced Selective Delamination of Amphiphilic ABA Block Copolymer Thin Films. Macromolecules, 2004, 37, 3431-3437. | 4.8 | 17 |
| 183 | Deterioration in effective thermal conductivity of aqueous magnetic nanofluids. Journal of Applied Physics, 2014, 116, . | 2.5 | 17 |
| 184 | Synthesis, characterization and aggregation behavior of block copolymers containing a polyisocyanopeptide segment. Polymer, 2004, 45, 7417-7430. | 3.8 | 16 |
| 185 | Kinetic switching between two modes of bisurea surfactant self-assembly. Chemical Communications, 2010, 46, 6063. | 4.1 | 16 |
| 186 | Coiled coil driven membrane fusion between cyclodextrin vesicles and liposomes. Soft Matter, 2014, 10, 9746-9751. | 2.7 | 16 |
| 187 | Early Transition Metal Doped Tungstite as an Effective Catalyst for Glucose Upgrading to 5-Hydroxymethylfurfural. Catalysis Letters, 2018, 148, 3093-3101. | 2.6 | 16 |
| 188 | Macrophage behavior on multilayered DNA-coatingsin vitro. Journal of Biomedical Materials Research - Part A, 2007, 80A, 612-620. | 4.0 | 15 |
| 189 | Cryogenic electron tomography reveals the template effect of chitosan in biomimetic silicification. Chemical Communications, 2010, 46, 1703. | 4.1 | 14 |
| 190 | Significance of the Amide Functionality on DOPA-Based Monolayers on Gold. Langmuir, 2012, 28, 16900-16908. | 3.5 | 14 |
| 191 | Nucleation Pathways in Electrolyte Solutions. , 2017, , 1-24. | | 14 |
| 192 | The Self-Assembly of Amphiphilic Oligothiophenes: Hydrogen Bonding and Poly(glutamate) Complexation. Bulletin of the Chemical Society of Japan, 2007, 80, 1703-1715. | 3.2 | 13 |
| 193 | Biological responses to multilayered DNA-coatings. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 81B, 231-238. | 3.4 | 13 |
| 194 | Self-Assembly of Chiral Supramolecular Ureido-Pyrimidinone-Based Poly(ethylene glycol) Polymers via Multiple Pathways. Macromolecules, 2014, 47, 3823-3828. | 4.8 | 13 |
| 195 | Controlling Internal Pore Sizes in Bicontinuous Polymeric Nanospheres. Angewandte Chemie, 2015, 127, 2487-2491. | 2.0 | 13 |
| 196 | Growth Kinetics of Cobalt Carbonate Nanoparticles Revealed by Liquid-Phase Scanning Transmission Electron Microscopy. Journal of Physical Chemistry C, 2019, 123, 25448-25455. | 3.1 | 13 |
| 197 | Binary Colloidal Nanoparticle Concentration Gradients in a Centrifugal Field at High Concentration. Nano Letters, 2019, 19, 1136-1142. | 9.1 | 13 |
| 198 | The polymerisation of oligo(ethylene glycol methyl ether) methacrylate from a multifunctional poly(ethylene imine) derived amide: a stabiliser for the synthesis and dispersion of magnetite nanoparticles. Polymer Chemistry, 2014, 5, 524-534. | 3.9 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | A Mesocrystalâ€Like Morphology Formed by Classical Polymerâ€Mediated Crystal Growth. Advanced Functional Materials, 2017, 27, 1701658. | 14.9 | 12 |
| 200 | Tricyclo[5.2.1.02,6]decadienone epoxides: rigid, highly congested Î±,Î²-epoxycyclopentanones with distinctive chemical behavior.. Tetrahedron Letters, 1991, 32, 3127-3130. | 1.4 | 11 |
| 201 | Molecular Recognition Controls the Organization of Mixed Self-Organized Bis-Urea-Based Mineralization Templates for CaCO<sub>3</sub>. Langmuir, 2007, 23, 12655-12662. | 3.5 | 11 |
| 202 | A Biomimetic Model for Mineralization of Type-I Collagen Fibrils. Methods in Molecular Biology, 2019, 1944, 39-54. | 0.9 | 11 |
| 203 | Peptide Amphiphile Nanoparticles Enhance the Immune Response Against a CpGâ€Adjuvanted Influenza Antigen. Advanced Healthcare Materials, 2014, 3, 343-348. | 7.6 | 10 |
| 204 | Disordered Filaments Mediate the Fibrillogenesis of Type I Collagen in Solution. Biomacromolecules, 2020, 21, 3631-3643. | 5.4 | 10 |
| 205 | Boomerang shaped aggregates from a histidine surfactant. Chemical Communications, 1997, , 455-456. | 4.1 | 9 |
| 206 | Tuning Intermolecular Interactions in a Rodlike Polymer Assembled at Surfaces and in Solution. Langmuir, 2004, 20, 8955-8957. | 3.5 | 9 |
| 207 | Divalent ligand for intramolecular complex formation to streptavidin. Organic and Biomolecular Chemistry, 2005, 3, 2393. | 2.8 | 9 |
| 208 | Library of Random Copolypeptides by Solid Phase Synthesis. Biomacromolecules, 2014, 15, 3687-3695. | 5.4 | 9 |
| 209 | Controlling the melting transition of semi-crystalline self-assembled block copolymer aggregates: controlling release rates of ibuprofen. Polymer Chemistry, 2017, 8, 5303-5316. | 3.9 | 9 |
| 210 | Transmission Electron Microscopy for Chemists. Accounts of Chemical Research, 2017, 50, 1795-1796. | 15.6 | 9 |
| 211 | Nanohybrid Materials with Tunable Birefringence via Cation Exchange in Polymer Films. Advanced Functional Materials, 2020, 30, 1907456. | 14.9 | 9 |
| 212 | Autocatalytic ring opening of N-acylaziridines. Complete control over regioselectivity by orientation at interfaces. Chemical Communications, 2001, , 269-270. | 4.1 | 8 |
| 213 | Designing stable, hierarchical peptide fibers from block co-polypeptide sequences. Chemical Science, 2019, 10, 9001-9008. | 7.4 | 8 |
| 214 | Tuning the supramolecular expression of chirality: phospholipid analogues containing amide linkages. Journal of the Chemical Society Chemical Communications, 1994, , 1941. | 2.0 | 7 |
| 215 | Morphology of protein polymer hybrid films studied by atomic force microscopy and scanning confocal fluorescence microscopy. Thin Solid Films, 2003, 443, 124-135. | 1.8 | 7 |
| 216 | Electron Tomography Shows Molecular Anchoring Within a Layer-by-Layer Film. Journal of the American Chemical Society, 2008, 130, 12608-12609. | 13.7 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Twoâ€Ðimensional Hybrid Materials: Transferring Technology from Biology to Society. European Journal of Inorganic Chemistry, 2015, 2015, 1089-1095. | 2.0 | 7 |
| 218 | Time and space resolved methods: general discussion. Faraday Discussions, 2015, 179, 247-267. | 3.2 | 7 |
| 219 | HPM live Î¼ for a full CLEM workflow. Methods in Cell Biology, 2021, 162, 115-149. | 1.1 | 7 |
| 220 | In vivo bioactivity of DNAâ€based coatings: An experimental study in rats. Journal of Biomedical Materials Research - Part A, 2010, 92A, 931-941. | 4.0 | 6 |
| 221 | Biomimetic Mineralization of Calcium Phosphate on a Functionalized Porous Silicon Carbide Biomaterial. ChemPlusChem, 2012, 77, 694-699. | 2.8 | 6 |
| 222 | Suspended crystalline films of protein hydrophobin I (HFBI). Journal of Colloid and Interface Science, 2015, 447, 107-112. | 9.4 | 6 |
| 223 | Smectic liquid crystal polymers as a template for ultrathin CaCO<sub>3</sub> nanolayers. RSC Advances, 2016, 6, 13953-13956. | 3.6 | 6 |
| 224 | Design and construction of supramolecular and macromolecular architectures by tandem interactions. Macromolecular Symposia, 1997, 117, 291-304. | 0.7 | 5 |
| 225 | Highly defined pore size distribution in solâ€“gel silicate glasses induced by incorporation of an oligomeric siloxane. Chemical Communications, 1997, , 159-160. | 4.1 | 5 |
| 226 | Matrix Effects on Selective Chemical Sensing by Sol-Gel Entrapped Complexing Agents. , 1998, 13, 565-568. | | 5 |
| 227 | Visualizing Biological Tissues: A Multiscale Workflow from Live Imaging to 3D Cryo-CLEM. Microscopy and Microanalysis, 2021, 27, 11-12. | 0.4 | 5 |
| 228 | DNA-Coatings: Bioactive Properties and Effects on Osteoblast-Like Cells. Key Engineering Materials, 2008, 361-363, 605-608. | 0.4 | 4 |
| 229 | Crystallization via Oriented Attachment of Nanoclusters with Short-Range Order in Solution. Journal of Physical Chemistry C, 2021, 125, 1143-1149. | 3.1 | 4 |
| 230 | Assemblies of aziridinemethanols. Journal of Materials Chemistry, 2001, 11, 269-277. | 6.7 | 3 |
| 231 | Hybrid Materials Engineering in Biology, Chemistry, and Physics. European Journal of Inorganic Chemistry, 2015, 2015, 1086-1088. | 2.0 | 3 |
| 232 | Synthesis and crystal structure of (+)-(2R,3R)-N, Nâ€²-bis-trityl-2,3-bis-aziridine. Journal of Chemical Crystallography, 1999, 29, 179-183. | 1.1 | 2 |
| 233 | Studying Polymer Self-Assembly by Combined Cryogenic and Liquid Phase Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 14-15. | 0.4 | 2 |
| 234 | Controlled Silica Synthesis Inspired by Diatom Silicon Biomineralization. Journal of Nanoscience and Nanotechnology, 2005, 5, 68-78. | 0.9 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Crystal and molecular structure of ethyl-endo-5-acetoxy-exo-3,4-epoxy-4-endo-tricyclo[5.2.1.02,6]deca-8-ene-2-carboxylate, C15H18O5. Journal of Crystallographic and Spectroscopic Research, 1991, 21, 217-221. | 0.2 | 1 |
| 236 | The Three-dimensional Constitution of Micelle Forming Surfactants as Studied by Cryo Electron Microscopy and Tomography. Microscopy and Microanalysis, 2006, 12, 1544-1545. | 0.4 | 1 |
| 237 | Cover Picture: Self-Organizing Î²-Sheet Lipopeptide Monolayers as Template for the Mineralization of CaCO3 (Angew. Chem. Int. Ed. 5/2006). Angewandte Chemie - International Edition, 2006, 45, 677-677. | 13.8 | 1 |
| 238 | Controlling the Size, Shape and Stability of Supramolecular Polymers in Water. Journal of Visualized Experiments, 2012, , e3975. | 0.3 | 1 |
| 239 | Time and Space resolved Methods: general discussion. Faraday Discussions, 2015, 177, 263-292. | 3.2 | 1 |
| 240 | Liquid Phase Electron Microscopy of Soft Matter. Microscopy and Microanalysis, 2018, 24, 248-249. | 0.4 | 1 |
| 241 | Formation of Hierarchical Hybrid Silica-Polymer Using Quantitative Cryo- Electron Tomography. Microscopy and Microanalysis, 2019, 25, 59-60. | 0.4 | 1 |
| 242 | In-Situ Liquid Phase Electron Microscopy of Beam-Sensitive Materials. Microscopy and Microanalysis, 2019, 25, 63-64. | 0.4 | 1 |
| 243 | Poly(3,4-ethylenedioxythiophene)-Based Glucose Biosensors. , 2001, 13, 1555. | | 1 |
| 244 | Silver Nanoarrays Templated by Block Copolymers of Carbosilane Dendrimers and Polyisocyanopeptides. Advanced Materials, 2002, 14, 489. | 21.0 | 1 |
| 245 | From Molecular to Supramolecular Chirality. , 1995, , 3-11. | | 1 |
| 246 | Crystal and molecular structure of 3-carboethoxy-E-pent-2-en-4-ynal(2,4-dinitrophenyl)hydrazone, C14H12N4O6. Journal of Crystallographic and Spectroscopic Research, 1993, 23, 69-72. | 0.2 | 0 |
| 247 | A Surface Plasmon Resonance Study of the Binding of Antibody LDS47 to Self-assembled Monolayers of Cysteine Containing Peptides. Journal of Chemical Research Synopses, 1999, , 42-43. | 0.3 | 0 |
| 248 | Biomimetic synthesis of calcium carbonate bilayers interfaced by a diblock copolymer template. Zeitschrift Fur Kristallographie - Crystalline Materials, 2012, 227, 739-743. | 0.8 | 0 |
| 249 | Polymer Inclusions in Biomimetic Calcite. Microscopy and Microanalysis, 2012, 18, 574-575. | 0.4 | 0 |
| 250 | Towards Understanding the Mechanisms behind Templated Growth of 2D Magnetite Platelets via Bio-Inspired Approaches. Microscopy and Microanalysis, 2019, 25, 61-62. | 0.4 | 0 |
| 251 | Challenges in Observing the Formation of Colloidal, Self-Assembled Monolayers with In Situ Electron Microscopy in Liquid. Microscopy and Microanalysis, 2019, 25, 55-56. | 0.4 | 0 |
| 252 | Transient phases and prenucleation clusters in biomimetic calcium phosphate mineralization. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C116-C116. | 0.3 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Expression of Supramolecular Chirality in Aggregates of Chiral Amide-Containing Surfactants. Chemistry - A European Journal, 1998, 4, 127-136. | 3.3 | 0 |