

# Stephen Mann

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1690608/stephen-mann-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

396  
papers

36,400  
citations

102  
h-index

179  
g-index

411  
ext. papers

38,544  
ext. citations

11.4  
avg, IF

7.54  
L-index

#	Paper	IF	Citations
396	Higher-order organization by mesoscale self-assembly and transformation of hybrid nanostructures. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 2350-65	16.4	1600
395	Molecular tectonics in biomineralization and biomimetic materials chemistry. <i>Nature</i> , <b>1993</b> , 365, 499-505	50.4	1046
394	Synthesis of inorganic materials with complex form. <i>Nature</i> , <b>1996</b> , 382, 313-318	50.4	1031
393	Growth and form of gold nanorods prepared by seed-mediated, surfactant-directed synthesis. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 1765-1770		835
392	Molecular recognition in biomineralization. <i>Nature</i> , <b>1988</b> , 332, 119-124	50.4	803
391	Self-assembly and transformation of hybrid nano-objects and nanostructures under equilibrium and non-equilibrium conditions. <i>Nature Materials</i> , <b>2009</b> , 8, 781-92	27	775
390	Crystallization at Inorganic-organic Interfaces: Biominerals and Biomimetic Synthesis. <i>Science</i> , <b>1993</b> , 261, 1286-92	33.3	630
389	Synthesis of hybrid inorganic-organic mesoporous silica by co-condensation of siloxane and organosiloxane precursors. <i>Chemical Communications</i> , <b>1996</b> , 1367-1368	5.8	580
388	Fabrication of Graphene-Polymer Nanocomposites With Higher-Order Three-Dimensional Architectures. <i>Advanced Materials</i> , <b>2009</b> , 21, 2180-2184	24	539
387	Bacterial templating of ordered macrostructures in silica and silica-surfactant mesophases. <i>Nature</i> , <b>1997</b> , 385, 420-423	50.4	511
386	Organization of Metallic Nanoparticles Using Tobacco Mosaic Virus Templates. <i>Nano Letters</i> , <b>2003</b> , 3, 413-417	11.5	507
385	Controlled crystallization of CaCO <sub>3</sub> under stearic acid monolayers. <i>Nature</i> , <b>1988</b> , 334, 692-695	50.4	462
384	Aqueous Stabilization and Self-Assembly of Graphene Sheets into Layered Bio-Nanocomposites using DNA. <i>Advanced Materials</i> , <b>2009</b> , 21, 3159-3164	24	425
383	Template-free Hydrothermal Synthesis of CuO/Cu <sub>2</sub> O Composite Hollow Microspheres. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 4327-4334	9.6	418
382	Synthesis of inorganic nanophase materials in supramolecular protein cages. <i>Nature</i> , <b>1991</b> , 349, 684-687	50.4	409
381	Biomineralization of ferrimagnetic greigite (Fe <sub>3</sub> S <sub>4</sub> ) and iron pyrite (FeS <sub>2</sub> ) in a magnetotactic bacterium. <i>Nature</i> , <b>1990</b> , 343, 258-261	50.4	398
380	Sol-Gel Synthesis of Organized Matter. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 2300-2310	9.6	392

379	Fabrication of hollow porous shells of calcium carbonate from self-organizing media. <i>Nature</i> , <b>1995</b> , 377, 320-323	50.4	366
378	Peptide-nucleotide microdroplets as a step towards a membrane-free protocell model. <i>Nature Chemistry</i> , <b>2011</b> , 3, 720-4	17.6	333
377	Synthesis of Prussian Blue Nanoparticles and Nanocrystal Superlattices in Reverse Microemulsions We thank the Swiss National Science Foundation for a postdoctoral fellowship to S.V. and the University of Bristol for a postgraduate studentship to M.L. <i>Angewandte Chemie - International Edition</i> , <b>2000</b> , 39, 1793-1796	16.4	323
376	Interfacial assembly of protein-polymer nano-conjugates into stimulus-responsive biomimetic protocells. <i>Nature Communications</i> , <b>2013</b> , 4, 2239	17.4	316
375	Nanoparticles can cause DNA damage across a cellular barrier. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 876-83	28.7	303
374	Directed Self-Assembly of Nanoparticles into Macroscopic Materials Using Antibody-Antigen Recognition. <i>Advanced Materials</i> , <b>1999</b> , 11, 449-452	24	296
373	Template mineralization of self-assembled anisotropic lipid microstructures. <i>Nature</i> , <b>1993</b> , 364, 430-433	50.4	291
372	Dextran templating for the synthesis of metallic and metal oxide sponges. <i>Nature Materials</i> , <b>2003</b> , 2, 386-90	27	283
371	Physical properties of type I collagen extracted from fish scales of <i>Pagrus major</i> and <i>Oreochromis niloticus</i> . <i>International Journal of Biological Macromolecules</i> , <b>2003</b> , 32, 199-204	7.9	277
370	Template-directed nucleation and growth of inorganic materials. <i>Advanced Materials</i> , <b>1994</b> , 6, 9-20	24	273
369	Hierarchical Assembly of Zeolite Nanoparticles into Ordered Macroporous Monoliths Using Core-Shell Building Blocks. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 2832-2834	9.6	272
368	Synthesis and characterization of ordered organosilica-surfactant mesophases with functionalized MCM-41-type architecture. <i>Chemical Communications</i> , <b>1997</b> , 1769-1770	5.8	260
367	Biomimetic synthesis of cadmium sulfide-ferritin nanocomposites. <i>Advanced Materials</i> , <b>1996</b> , 8, 928-932	24	254
366	Interfacial synthesis of hollow microspheres of mesostructured silica. <i>Chemical Communications</i> , <b>2001</b> , 2028-9	5.8	253
365	Structure, morphology and crystal growth of bacterial magnetite. <i>Nature</i> , <b>1984</b> , 310, 405-407	50.4	251
364	DNA-driven self-assembly of gold nanorods. <i>Chemical Communications</i> , <b>2001</b> , 1264-1265	5.8	246
363	Life as a nanoscale phenomenon. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 5306-20	16.4	241
362	Fatty acid membrane assembly on coacervate microdroplets as a step towards a hybrid protocell model. <i>Nature Chemistry</i> , <b>2014</b> , 6, 527-33	17.6	238

- 361 Morphosynthesis of Calcium Carbonate (Vaterite) Microsponges. *Advanced Materials*, **1999**, 11, 324-328 24 235
- 360 Bioinorganic clays: synthesis and characterization of amino- and polyamino acid intercalated layered double hydroxides. *Journal of Materials Chemistry*, **1997**, 7, 1623-1629 234
- 359 Coccolith ultrastructure and biomineralisation. *Journal of Structural Biology*, **1999**, 126, 195-215 3.4 232
- 358 Synthesis of Barium Sulfate Nanoparticles and Nanofilaments in Reverse Micelles and Microemulsions. *Chemistry of Materials*, **1997**, 9, 1819-1828 9.6 231
- 357 One-step hydrothermal fabrication and photocatalytic activity of surface-fluorinated TiO<sub>2</sub> hollow microspheres and tabular anatase single micro-crystals with high-energy facets. *CrystEngComm*, **2010**, 12, 872-879 3.3 226
- 356 Molecule-Based Magnetic Nanoparticles: Synthesis of Cobalt Hexacyanoferrate, Cobalt Pentacyanonitrosylferrate, and Chromium Hexacyanochromate Coordination Polymers in Water-in-Oil Microemulsions. *Nano Letters*, **2002**, 2, 225-229 11.5 226
- 355 Microstructure, mechanical, and biomimetic properties of fish scales from *Pagrus major*. *Journal of Structural Biology*, **2003**, 142, 327-33 3.4 216
- 354 Starch Gel Templating of Spongelike Macroporous Silicalite Monoliths and Mesoporous Films. *Chemistry of Materials*, **2002**, 14, 1369-1375 9.6 208
- 353 Critical Transitions in the Biofabrication of Abalone Shells and Flat Pearls. *Chemistry of Materials*, **1996**, 8, 679-690 9.6 202
- 352 Flat pearls from biofabrication of organized composites on inorganic substrates. *Nature*, **1994**, 371, 49-51 10.4 201
- 351 Template-Directed Assembly Using Nanoparticle Building Blocks: A Nanotectonic Approach to Organized Materials. *Chemistry of Materials*, **2001**, 13, 3218-3226 9.6 200
- 350 Biomineralization and biomimetic materials chemistry. *Journal of Materials Chemistry*, **1995**, 5, 935 199
- 349 Inorganic/Organic Mesostructures with Complex Architectures: Precipitation of Calcium Phosphate in the Presence of Double-Hydrophilic Block Copolymers. *Chemistry - A European Journal*, **1998**, 4, 2493-2500 4.8 195
- 348 Designs for life: protocell models in the laboratory. *Chemical Society Reviews*, **2012**, 41, 79-85 58.5 191
- 347 Electrostatically gated membrane permeability in inorganic protocells. *Nature Chemistry*, **2013**, 5, 529-36 17.6 190
- 346 Morphological influence of functionalized and non-functionalized dicarboxylates on calcite crystallization. *Journal of the Chemical Society, Faraday Transactions*, **1990**, 86, 1873-1880 182
- 345 Liquid crystalline assemblies of ordered gold nanorods. *Journal of Materials Chemistry*, **2002**, 12, 2909-2912 179
- 344 Biomimetic Synthesis and Characterization of Magnetic Proteins (Magnetoferritin). *Chemistry of Materials*, **1998**, 10, 279-285 9.6 179

343	Phospholipid vesicles as a model system for biomineralization. <i>Nature</i> , <b>1986</b> , 324, 565-567	50.4	175
342	Crystal assembly and phylogenetic evolution in heterococcoliths. <i>Nature</i> , <b>1992</b> , 356, 516-518	50.4	174
341	Spontaneous formation of a tungsten trioxide sphere-in-shell superstructure by chemically induced self-transformation. <i>Small</i> , <b>2008</b> , 4, 87-91	11	173
340	Reconstitution of manganese oxide cores in horse spleen and recombinant ferritins. <i>Journal of Inorganic Biochemistry</i> , <b>1995</b> , 58, 59-68	4.2	172
339	Emergence of Morphological Complexity in BaSO <sub>4</sub> Fibers Synthesized in AOT Microemulsions. <i>Langmuir</i> , <b>2000</b> , 16, 7088-7094	4	170
338	Synthesis of mesoporous silica by sol-gel mineralisation of cellulose nanorod nematic suspensions. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 696-699		169
337	Morphosynthesis of complex inorganic forms using pollen grain templates. <i>Chemical Communications</i> , <b>2003</b> , 2784-5	5.8	167
336	Influence of low-molecular-weight and macromolecular organic additives on the morphology of calcium carbonate. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1993</b> , 89, 2891		165
335	Synthesis and characterization of amino acid-functionalized hydroxyapatite nanorods. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 2277		164
334	Molecular Construction of Oriented Inorganic Materials: Controlled Nucleation of Calcite and Aragonite under Compressed Langmuir Monolayers. <i>Chemistry of Materials</i> , <b>1994</b> , 6, 311-318	9.6	163
333	Systems of creation: the emergence of life from nonliving matter. <i>Accounts of Chemical Research</i> , <b>2012</b> , 45, 2131-41	24.3	162
332	Template Mineralization of Ordered Macroporous Chitin/Silica Composites Using a Cuttlebone-Derived Organic Matrix. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 2835-2837	9.6	160
331	Facile synthesis of hollow silica microspheres. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 1968-1971		159
330	Synthesis, Characterization, and Reactivity of Layered Inorganic/Organic Nanocomposites Based on 2:1 Trioctahedral Phyllosilicates. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 1071-1073	9.6	152
329	Chiral templating of silica-lipid lamellar mesophase with helical tubular architecture. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 2988-91	16.4	152
328	Formation of BaSO <sub>4</sub> fibres with morphological complexity in aqueous polymer solutions. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 3526-32	4.8	148
327	Magnetoferritin: characterization of a novel superparamagnetic MR contrast agent. <i>Journal of Magnetic Resonance Imaging</i> , <b>1994</b> , 4, 497-505	5.6	147
326	Structure and composition of ferritin cores isolated from human spleen, limpet ( <i>Patella vulgata</i> ) hemolymph and bacterial ( <i>Pseudomonas aeruginosa</i> ) cells. <i>Journal of Molecular Biology</i> , <b>1986</b> , 188, 225-32	6.5	145

325	Multifunctional porous microspheres based on peptide-porphyrin hierarchical co-assembly. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2366-70	16.4	143
324	Influence of site-directed modifications on the formation of iron cores in ferritin. <i>Journal of Molecular Biology</i> , <b>1991</b> , 221, 1443-52	6.5	143
323	Template-directed synthesis of aragonite under supramolecular hydrogen-bonded langmuir monolayers. <i>Advanced Materials</i> , <b>1997</b> , 9, 124-127	24	141
322	Cocondensation of Organosilica Hybrid Shells on Nanoparticle Templates: A Direct Synthetic Route to Functionalized Core-Shell Colloids. <i>Langmuir</i> , <b>2000</b> , 16, 1454-1456	4	139
321	Fabrication of hybrid nanocapsules by calcium phosphate mineralization of shell cross-linked polymer micelles and nanocages. <i>Nano Letters</i> , <b>2005</b> , 5, 1457-61	11.5	138
320	Bacterial templating of zeolite fibres with hierarchical structure. <i>Chemical Communications</i> , <b>2000</b> , 781-782	28	138
319	Design and construction of higher-order structure and function in proteinosome-based protocells. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9225-34	16.4	131
318	Organization of Inorganic Nanoparticles Using Biotin-Streptavidin Connectors. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 23-26	9.6	127
317	Synthetic cellularity based on non-lipid micro-compartments and protocell models. <i>Current Opinion in Chemical Biology</i> , <b>2014</b> , 22, 1-11	9.7	125
316	Template-directed synthesis of bi-functionalized organo-MCM-41 and phenyl-MCM-48 silica mesophases. <i>Chemical Communications</i> , <b>1999</b> , 201-202	5.8	125
315	In vitro gene expression within membrane-free coacervate protocells. <i>Chemical Communications</i> , <b>2015</b> , 51, 11429-32	5.8	122
314	Synthesis of hierarchically ordered dye-functionalised mesoporous silica with macroporous architecture by dual templating. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 2105-2108		119
313	Oriented crystallization of CaCO <sub>3</sub> under compressed monolayers. Part 2. Morphology, structure and growth of immature crystals. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1991</b> , 87, 735-743		118
312	Morphosynthesis of Octacalcium Phosphate Hollow Microspheres by Polyelectrolyte-Mediated Crystallization. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 2163	16.4	117
311	Synthesis of titania hollow microspheres using non-aqueous emulsions. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 1112-1114		117
310	Synthetic and biological composites formed by in situ precipitation. <i>Journal of Materials Science</i> , <b>1988</b> , 23, 3801-3815	4.3	114
309	From natural attapulgite to mesoporous materials: methodology, characterization and structural evolution. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 2390-8	3.4	113
308	Synthesis and self-assembly of organoclay-wrapped biomolecules. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 4928-33	16.4	112

307	Organic template-directed inorganic crystallization: oriented nucleation of barium sulfate under compressed Langmuir monolayers. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 4681-4686	16.4	112
306	Fe3O4 and Fe3S4 in a bacterium. <i>Nature</i> , <b>1993</b> , 366, 218-218	50.4	112
305	Hybrid lamellar nanocomposites based on organically functionalized magnesium phyllosilicate clays with interlayer reactivity. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 1927-1932		109
304	Nucleation of MCM-41 Nanoparticles by Internal Reorganization of Disordered and Nematic-Like Silica Surfactant Clusters. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 2151	16.4	108
303	Synthesis and shape modification of organo-functionalised silica nanoparticles with ordered mesostructured interiors. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 1023-1029		108
302	Reconstituted and native iron-cores of bacterioferritin and ferritin. <i>Journal of Molecular Biology</i> , <b>1987</b> , 198, 405-16	6.5	108
301	Solvent-free protein liquids and liquid crystals. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6242-6246	16.4	105
300	Spontaneous template-free assembly of ordered macroporous titania. <i>Chemical Communications</i> , <b>2004</b> , 568-9	5.8	105
299	Covalent coupling of an organic chromophore into functionalized MCM-41 mesophases by template-directed co-condensation. <i>Chemical Communications</i> , <b>1998</b> , 1825-1826	5.8	105
298	Transparent thin films and monoliths prepared from dye-functionalized ordered silica mesostructures. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 2279-2281		105
297	The origins of life: old problems, new chemistries. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 155-62	16.4	103
296	Aragonite/Hydroxyapatite Conversion in Gastropod (Abalone) Nacre. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 3813-3824	9.6	102
295	Organic Crystal Templating of Hollow Silica Fibers. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 3021-3024	9.6	102
294	Mössbauer spectroscopic studies of the cores of human, limpet and bacterial ferritins. <i>BBA - Proteins and Proteomics</i> , <b>1986</b> , 870, 127-34		102
293	Influence of surfactant assembly on the formation of calcium phosphate materials: A model for dental enamel formation. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 3317		101
292	Oriented crystallization of CaCO <sub>3</sub> under compressed monolayers. Part 1. Morphological studies of mature crystals. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1991</b> , 87, 727-734		101
291	Magnetotactic bacteria: microbiology, biomineralization, palaeomagnetism and biotechnology. <i>Advances in Microbial Physiology</i> , <b>1990</b> , 31, 125-81	4.4	100
290	Hierarchical Proteinosomes for Programmed Release of Multiple Components. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 7095-100	16.4	96

- 289 Template-free hydrothermal fabrication of hierarchically organized  $\gamma$ -AlOOH hollow microspheres. *Microporous and Mesoporous Materials*, **2009**, 122, 42-47 5.3 95
- 288 Hierarchical Self-assembly of Microscale Cog-like Superstructures for Enhanced Performance in Lithium-Ion Batteries. *Advanced Functional Materials*, **2011**, 21, 3516-3523 15.6 94
- 287 Fabrication of Continuous and Segmented Polymer/Metal Oxide Nanowires Using Cylindrical Micelles and Block Copolymers as Templates. *Advanced Materials*, **2009**, 21, 1805-1808 24 94
- 286 Flank milling with flat end milling cutters. *CAD Computer Aided Design*, **2003**, 35, 293-300 2.9 93
- 285 Template-directed inorganic crystallization: oriented nucleation of barium sulfate under Langmuir monolayers of an aliphatic long chain phosphonate. *Langmuir*, **1992**, 8, 1492-1498 4 92
- 284 Formation of iron oxides in unilamellar vesicles. *Journal of Colloid and Interface Science*, **1988**, 122, 326-335 92
- 283 Reversible dioxygen binding in solvent-free liquid myoglobin. *Nature Chemistry*, **2010**, 2, 622-6 17.6 89
- 282 Preparation of high quality nanowires by tobacco mosaic virus templating of gold nanoparticles. *Journal of Materials Chemistry*, **2008**, 18, 4796 89
- 281 Fabrication of Magnetic Spider Silk and Other Silk-Fiber Composites Using Inorganic Nanoparticles. *Advanced Materials*, **1998**, 10, 801-805 24 88
- 280 Synthesis of Calcium Phosphate Nanofilaments in Reverse Micelles. *Chemistry of Materials*, **2005**, 17, 2765-2770 9.6 88
- 279 Biomineralization: the form(id)able part of bioinorganic chemistry!\*. *Journal of the Chemical Society Dalton Transactions*, **1997**, 3953-3962 86
- 278 Novel bioinorganic nanostructures based on mesolamellar intercalation or single-molecule wrapping of DNA using organoclay building blocks. *Nano Letters*, **2007**, 7, 2660-5 11.5 86
- 277 Self-assembly of bioinorganic nanohybrids using organoclay building blocks. *Journal of Materials Chemistry*, **2008**, 18, 4605 84
- 276 Fabrication of functional protein-organoclay lamellar nanocomposites by biomolecule-induced assembly of exfoliated aminopropyl-functionalized magnesium phyllosilicates. *Journal of Materials Chemistry*, **2005**, 15, 3838 84
- 275 In vitro gene expression and enzyme catalysis in bio-inorganic protocells. *Chemical Science*, **2011**, 2, 1739-4 83
- 274 Fabrication of Porous Titania (Brookite) Microparticles with Complex Morphology by Sol-Gel Replication of Pollen Grains. *Chemistry of Materials*, **2006**, 18, 598-600 9.6 83
- 273 Chemical Signaling and Functional Activation in Colloidosome-Based Protocells. *Small*, **2016**, 12, 1920-7 11 81
- 272 A Generalized Mechanism for Ligand-Induced Dipolar Assembly of Plasmonic Gold Nanoparticle Chain Networks. *Advanced Functional Materials*, **2011**, 21, 851-859 15.6 80



271	Influence of monosaccharides and related molecules on the morphology of hydroxyapatite. <i>Journal of Crystal Growth</i> , <b>1993</b> , 133, 1-12	1.6	80
270	Stabilization and enhanced reactivity of actinorhodin polyketide synthase minimal complex in polymer-nucleotide coacervate droplets. <i>Chemical Communications</i> , <b>2012</b> , 48, 11832-4	5.8	77
269	Guest-Molecule-Directed Assembly of Mesostructured Nanocomposite Polymer/Organoclay Hydrogels. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 674-681	15.6	77
268	Polymer/nucleotide droplets as bio-inspired functional micro-compartments. <i>Soft Matter</i> , <b>2012</b> , 8, 6004	3.6	76
267	Spatial organization and patterning of gold nanoparticles on self-assembled biolipid tubular templates. <i>Chemical Communications</i> , <b>1996</b> , 321	5.8	76
266	Templating silica nanostructures on rationally designed self-assembled peptide fibers. <i>Langmuir</i> , <b>2008</b> , 24, 11778-83	4	75
265	Synergetic Codoping in Fluorinated Ti1-xZrxO2 Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 10712-10717	3.8	74
264	Membrane-mediated cascade reactions by enzyme-polymer proteinosomes. <i>Chemical Communications</i> , <b>2014</b> , 50, 6278-80	5.8	73
263	Aqueous Near-Infrared Fluorescent Composites Based on Apoferritin-Encapsulated PbS Quantum Dots. <i>Advanced Materials</i> , <b>2008</b> , 20, 3592-3596	24	72
262	Structure and composition of ferritin cores from pea seed ( <i>Pisum sativum</i> ). <i>BBA - Proteins and Proteomics</i> , <b>1993</b> , 1161, 91-6		72
261	Bone-like Resorbable Silk-based Scaffolds for Load-bearing Osteoregenerative Applications. <i>Advanced Materials</i> , <b>2009</b> , 21, 75-78	24	71
260	Influence of inorganic and organic additives on the tailored synthesis of iron oxides. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1991</b> , 87, 3875		71
259	Non-equilibrium behaviour in coacervate-based protocells under electric-field-induced excitation. <i>Nature Communications</i> , <b>2016</b> , 7, 10658	17.4	69
258	Dalton perspectives. Biomineralization: the hard part of bioinorganic chemistry!. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1993</b> , 1		69
257	Isolation and properties of the complex nonheme-iron-containing cytochrome b557 (bacterioferritin) from <i>Pseudomonas aeruginosa</i> . <i>Journal of Inorganic Biochemistry</i> , <b>1986</b> , 28, 329-36	4.2	69
256	Enzyme-powered motility in buoyant organoclay/DNA protocells. <i>Nature Chemistry</i> , <b>2018</b> , 10, 1154-1163	17.6	68
255	Morphological control of BaSO4 microstructures by double hydrophilic block copolymer mixtures. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 2269-2276		68
254	Chemical Synthesis of Microskeletal Calcium Phosphate in Bicontinuous Microemulsions. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 1944-1953	9.6	67

253	Functional composition algorithms via blossoming. <i>ACM Transactions on Graphics</i> , <b>1993</b> , 12, 113-135	7.6	67
252	Spontaneous growth and division in self-reproducing inorganic colloidosomes. <i>Small</i> , <b>2014</b> , 10, 3291-8	11	66
251	Photoswitchable Phase Separation and Oligonucleotide Trafficking in DNA Coacervate Microdroplets. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14594-14598	16.4	65
250	Synthesis of Nanophase Iron Oxide in Lumazine Synthase Capsids. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 442-445	16.4	65
249	Influence of particle size and reactive oxygen species on cobalt chrome nanoparticle-mediated genotoxicity. <i>Biomaterials</i> , <b>2013</b> , 34, 3559-70	15.6	64
248	Triple tangent flank milling of ruled surfaces. <i>CAD Computer Aided Design</i> , <b>2004</b> , 36, 289-296	2.9	63
247	Overproduction, purification and characterization of the Escherichia coli ferritin. <i>FEBS Journal</i> , <b>1993</b> , 218, 985-95		63
246	Why geometric algebra? <b>2007</b> , 1-19		63
245	Enzyme activity in liquid lipase melts as a step towards solvent-free biology at 150 °C. <i>Nature Communications</i> , <b>2014</b> , 5, 5058	17.4	62
244	Microfluidic Formation of Membrane-Free Aqueous Coacervate Droplets in Water. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 8398-401	16.4	60
243	Synthesis and characterization of cerium phosphate nanowires in microemulsion reaction media. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 1111-3	3.4	60
242	Polymer-mediated synthesis of ferritin-encapsulated inorganic nanoparticles. <i>Small</i> , <b>2007</b> , 3, 1477-81	11	59
241	Selective Uptake and Refolding of Globular Proteins in Coacervate Microdroplets. <i>Langmuir</i> , <b>2016</b> , 32, 5881-9	4	57
240	Spontaneous structuration in coacervate-based protocells by polyoxometalate-mediated membrane assembly. <i>Small</i> , <b>2014</b> , 10, 1830-40	11	57
239	Additive-Mediated Crystallization of Complex Calcium Carbonate Superstructures in Reverse Microemulsions. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 3557-3561	9.6	57
238	Structural Evolution of Superconductor Nanowires in Biopolymer Gels. <i>Advanced Materials</i> , <b>2008</b> , 20, 1782-1786	24	56
237	Oxygen isotope fractionation during synthesis of CaMg-carbonate and implications for sedimentary dolomite formation. <i>Geochimica Et Cosmochimica Acta</i> , <b>2005</b> , 69, 4665-4674	5.5	55
236	DNA-directed assembly of multifunctional nanoparticle networks using metallic and bioinorganic building blocks. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 2260		55

235	Brittle Bacteria: A Biomimetic Approach to the Formation of Fibrous Composite Materials. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 2516-2524	9.6	55
234	A note on the composition and properties of ferritin iron cores. <i>Journal of Inorganic Biochemistry</i> , <b>1987</b> , 31, 1-6	4.2	55
233	Genetic manipulation of human mesenchymal progenitors to promote chondrogenesis using "bead-in-bead" polysaccharide capsules. <i>Biomaterials</i> , <b>2008</b> , 29, 58-65	15.6	54
232	Biomolecular inorganic materials chemistry. <i>Current Opinion in Solid State and Materials Science</i> , <b>2003</b> , 7, 273-281	12	54
231	Artificial membrane-binding proteins stimulate oxygenation of stem cells during engineering of large cartilage tissue. <i>Nature Communications</i> , <b>2015</b> , 6, 7405	17.4	53
230	Characterization of the manganese core of reconstituted ferritin by x-ray absorption spectroscopy. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 8471-8472	16.4	52
229	Selective stabilization of the (001) face of calcite in the presence of lithium. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1990</b> , 1789		52
228	Mössbauer spectroscopy, electron microscopy and electron diffraction studies of the iron cores in various human and animal haemosiderins. <i>BBA - Proteins and Proteomics</i> , <b>1988</b> , 957, 81-90		52
227	The characterisation of the nature of silica in biological systems. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1983</b> , 168		51
226	Cytoskeletal-like supramolecular assembly and nanoparticle-based motors in a model protocell. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 9343-7	16.4	50
225	Supramolecular hydrogels derived from silver ion-mediated self-assembly of 5'-guanosine monophosphate. <i>Soft Matter</i> , <b>2011</b> , 7, 8120	3.6	50
224	Microemulsion-based synthesis of stacked calcium carbonate (calcite) superstructures. <i>Chemical Communications</i> , <b>2004</b> , 2182-3	5.8	50
223	Crystal recognition at inorganic/organic interfaces: Nucleation and growth of oriented BaSO <sub>4</sub> under Compressed Langmuir Monolayers. <i>Advanced Materials</i> , <b>1992</b> , 4, 278-282	24	50
222	Crystallochemical characterization of magnetic spinels prepared from aqueous solution. <i>Journal of the Chemical Society Faraday Transactions I</i> , <b>1989</b> , 85, 3033		50
221	Structure and function of the silicifying peptide R5. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 2607-2614	7.3	49
220	Synthesis and characterization of hydrophobic ferritin proteins. <i>Journal of Inorganic Biochemistry</i> , <b>1999</b> , 76, 187-95	4.2	49
219	Multimodal plasmonics in fused colloidal networks. <i>Nature Materials</i> , <b>2015</b> , 14, 87-94	27	48
218	Directing chondrogenesis of stem cells with specific blends of cellulose and silk. <i>Biomacromolecules</i> , <b>2013</b> , 14, 1287-98	6.9	48

217	Small-molecule uptake in membrane-free peptide/nucleotide protocells. <i>Soft Matter</i> , <b>2013</b> , 9, 7647	3.6	47
216	Alginate-mediated routes to the selective synthesis of complex metal oxide nanostructures. <i>CrystEngComm</i> , <b>2010</b> , 12, 1410	3.3	47
215	Liquid proteins--a new frontier for biomolecule-based nanoscience. <i>ACS Nano</i> , <b>2011</b> , 5, 6085-91	16.7	47
214	Influence of polymer co-intercalation on guest release from aminopropyl-functionalized magnesium phyllosilicate mesolamellar nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 3894		47
213	Engineered synthetic virus-like particles and their use in vaccine delivery. <i>ChemBioChem</i> , <b>2011</b> , 12, 100-93.8		46
212	Strategies to promote chondrogenesis and osteogenesis from human bone marrow cells and articular chondrocytes encapsulated in polysaccharide templates. <i>Tissue Engineering</i> , <b>2006</b> , 12, 2789-99		45
211	Chemical communication in spatially organized protocell colonies and protocell/living cell micro-arrays. <i>Chemical Science</i> , <b>2019</b> , 10, 9446-9453	9.4	43
210	Artificial cytoskeletal structures within enzymatically active bio-inorganic protocells. <i>Small</i> , <b>2013</b> , 9, 357-62		42
209	Determination of the preexponential frequency factor for superparamagnetic maghemite particles in magnetoferritin. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 22671-22680		42
208	Chloroplast-containing coacervate micro-droplets as a step towards photosynthetically active membrane-free protocells. <i>Chemical Communications</i> , <b>2018</b> , 54, 3594-3597	5.8	41
207	A polymer surfactant corona dynamically replaces water in solvent-free protein liquids and ensures macromolecular flexibility and activity. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13168-71	16.4	41
206	Chemical infiltration during atomic layer deposition: metalation of porphyrins as model substrates. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 4982-5	16.4	41
205	Morphosynthesis of Macroporous Silica Frameworks in Bicontinuous Microemulsions. <i>Advanced Materials</i> , <b>1998</b> , 10, 151-154	24	41
204	Stimulation of human bone marrow stromal cells using growth factor encapsulated calcium carbonate porous microspheres. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 2206		41
203	Hyper-thermal stability and unprecedented re-folding of solvent-free liquid myoglobin. <i>Chemical Science</i> , <b>2012</b> , 3, 1839	9.4	40
202	Synthesis of fluorescent core-shell hydroxyapatite nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 1250-1254		40
201	Fabrication of ice-templated macroporous TiO <sub>2</sub> /chitosan scaffolds for photocatalytic applications. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8478		40
200	Fabrication of CaCO <sub>3</sub> /biopolymer thin films using supercritical carbon dioxide. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 1134-1136		40

199	Template-directed synthesis of silica-coated J-aggregate nanotapes. <i>Chemical Communications</i> , <b>2005</b> , 3688-90	5.8	40
198	Biomimetic fabrication of semi-permeable calcium phosphate-polysaccharide microcapsules. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 2178-2180		40
197	Predicting the influence of growth additives on the morphology of ionic crystals. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1991</b> , 1494		40
196	The influence of inorganic phosphate on the crystallization of magnetite (Fe <sub>3</sub> O <sub>4</sub> ) from aqueous solution. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1985</b> , 1713		40
195	Mineralized polysaccharide capsules as biomimetic microenvironments for cell, gene and growth factor delivery in tissue engineering. <i>Soft Matter</i> , <b>2006</b> , 2, 732-737	3.6	39
194	Concentration-Dependent Formation Mechanisms in Mesophase Silica-Surfactant Films. <i>Langmuir</i> , <b>2002</b> , 18, 9838-9844	4	39
193	Magnetoferritin. <i>Investigative Radiology</i> , <b>1994</b> , 29, S214-S216	10.1	39
192	The biocompatibility of apoferritin-encapsulated PbS quantum dots. <i>Small</i> , <b>2009</b> , 5, 1738-41	11	38
191	A general strategy for the biosynthesis of gold nanoparticles by traditional Chinese medicines and their potential application as catalysts. <i>Chemistry - an Asian Journal</i> , <b>2009</b> , 4, 1050-4	4.5	38
190	Generalization of the imprint method to general surfaces of revolution for NC machining. <i>CAD Computer Aided Design</i> , <b>2002</b> , 34, 373-378	2.9	38
189	Habit modification in synthetic crystals of aragonite and vaterite. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1995</b> , 1031		38
188	Interaction of Poly(.alpha.,.beta.-aspartate) with Octadecylamine Monolayers: Adsorption Behavior and Effects on CaCO <sub>3</sub> Crystallization. <i>Langmuir</i> , <b>1995</b> , 11, 3130-3136	4	38
187	A high-resolution electron microscopy examination of domain boundaries in crystals of synthetic goethite. <i>Journal of the Chemical Society Faraday Transactions I</i> , <b>1983</b> , 79, 2679		38
186	Membrane engineering of colloidosome microcompartments using partially hydrophobic mesoporous silica nanoparticles. <i>Langmuir</i> , <b>2014</b> , 30, 15047-52	4	37
185	A flexible one-pot route to metal/metal oxide nanocomposites. <i>Green Chemistry</i> , <b>2011</b> , 13, 272-275	10	37
184	Spongelike Macroporous TiO <sub>2</sub> Monoliths Prepared from Starch Gel Template. <i>Journal of Sol-Gel Science and Technology</i> , <b>2004</b> , 32, 99-105	2.3	37
183	Fabrication of hydroxyapatite sponges by dextran sulphate/amino acid templating. <i>Biomaterials</i> , <b>2005</b> , 26, 6652-6	15.6	37
182	Chlorhexidine hexametaphosphate nanoparticles as a novel antimicrobial coating for dental implants. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 201	4.5	36

181	An ex vivo model for chondrogenesis and osteogenesis. <i>Biomaterials</i> , <b>2007</b> , 28, 2839-49	15.6	36
180	Precipitation within unilamellar vesicles. Part 1. Studies of silver(I) oxide formation. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1983</b> , 311		36
179	Molecular dynamics simulations reveal a dielectric-responsive coronal structure in protein-polymer surfactant hybrid nanoconstructs. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 16824-31	16.4	35
178	Phase evolution in the alkane/water/EOs quadru-component system: a feasible route to different complex mesostructured materials. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 1507-1510		34
177	Structural studies on surfactant-templated silica films grown at the air/water interface. <i>Microporous and Mesoporous Materials</i> , <b>2001</b> , 44-45, 661-670	5.3	34
176	Initial assessment of magnetoferritin biokinetics and proton relaxation enhancement in rats. <i>Academic Radiology</i> , <b>1995</b> , 2, 871-8	4.3	34
175	Enzymatically active self-standing protein-polymer surfactant films prepared by hierarchical self-assembly. <i>Advanced Materials</i> , <b>2013</b> , 25, 2005-10	24	33
174	Self-Assembly of Electrically Conducting Biopolymer Thin Films by Cellulose Regeneration in Gold Nanoparticle Aqueous Dispersions. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2675-2680	9.6	33
173	Promotion of fluorapatite crystallization by soluble-matrix proteins from <i>Lingula anatina</i> shells. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 885-8	16.4	33
172	Preparation of higher-order zeolite materials by using dextran templating. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 6691-5	16.4	33
171	Enzyme-mediated nitric oxide production in vasoactive erythrocyte membrane-enclosed coacervate protocells. <i>Nature Chemistry</i> , <b>2020</b> , 12, 1165-1173	17.6	33
170	Electrospun mats of PVP/ACP nanofibres for remineralization of enamel tooth surfaces. <i>CrystEngComm</i> , <b>2011</b> , 13, 3692	3.3	32
169	Influence of Silicon and Phosphorus on Structural and Magnetic Properties of Synthetic Goethite and Related Oxides. <i>Clays and Clay Minerals</i> , <b>1988</b> , 36, 165-175	2.1	32
168	Modulation of Higher-order Behaviour in Model Protocell Communities by Artificial Phagocytosis. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6333-6337	16.4	30
167	Augmentation of skeletal tissue formation in impaction bone grafting using vaterite microsphere biocomposites. <i>Biomaterials</i> , <b>2009</b> , 30, 1918-27	15.6	30
166	Controlled assembly of Sb <sup>3+</sup> nanoparticles on silica/polymer nanotubes: insights into the nature of hybrid interfaces. <i>Scientific Reports</i> , <b>2013</b> , 3, 1336	4.9	29
165	Sorption of Nitrogen, Water Vapor, and Benzene by a Phenyl-Modified MCM-41 Sorbent. <i>Journal of Colloid and Interface Science</i> , <b>1998</b> , 201, 220-222	9.3	29
164	Ligand-mediated self-assembly of polymer-enveloped gold nanoparticle chains and networks. <i>Chemical Communications</i> , <b>2010</b> , 46, 7602-4	5.8	28

163	Synthesis of cellular inorganic films from self-organized Media. <i>Advanced Materials</i> , <b>1997</b> , 9, 658-662	24	28
162	Silk inverse opals from template-directed sheet transformation of regenerated silk fibroin. <i>Soft Matter</i> , <b>2007</b> , 3, 1377-1380	3.6	28
161	Programmed assembly of multi-layered protein/nanoparticle-carbon nanotube conjugates. <i>Chemical Communications</i> , <b>2005</b> , 4952-4	5.8	28
160	CaCO <sub>3</sub> /Biopolymer Composite Films Prepared Using Supercritical CO <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 3332-3334	3.9	28
159	Crystal tectonics: Chemical construction and self-organization beyond the unit cell. <i>Dalton Transactions RSC</i> , <b>2000</b> , 3753-3763		28
158	Response-Retaliatio Behavior in Synthetic Protocell Communities. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17758-17763	16.4	27
157	Single-step fabrication of drug-encapsulated inorganic microspheres with complex form by sonication-induced nanoparticle assembly. <i>Chemical Communications</i> , <b>2004</b> , 576-7	5.8	27
156	Structural Evolution of Surfactant-Silica Film-Forming Solutions, Investigated Using Small-Angle Neutron Scattering. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 4292-4299	9.6	27
155	Influence of Membrane Composition on the Intravesicular Precipitation of Nanophase Gold Particles. <i>Journal of Colloid and Interface Science</i> , <b>1993</b> , 161, 66-71	9.3	27
154	Cerium oxide nanoparticle-mediated self-assembly of hybrid supramolecular hydrogels. <i>Chemical Communications</i> , <b>2012</b> , 48, 7934-6	5.8	26
153	Bio-inspired complementary photoconductor by porphyrin-coated silicon nanowires. <i>Advanced Materials</i> , <b>2011</b> , 23, 3979-83	24	26
152	Flank milling of a ruled surface with conical tools: An optimization approach. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2006</b> , 29, 1115-1124	3.2	26
151	Controlled Assembly of Nanoparticle-Containing Gold and Silica Microspheres and Silica/Gold Nanocomposite Spheroids with Complex Form. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 528-535	9.6	26
150	Self-assembled microstructures from 1,2-ethanediol suspensions of pure and binary mixtures of neutral and acidic biological galactosylceramides. <i>Chemistry and Physics of Lipids</i> , <b>1994</b> , 69, 51-64	3.7	26
149	Nonequilibrium Spatiotemporal Sensing within Acoustically Patterned Two-Dimensional Protocell Arrays. <i>ACS Central Science</i> , <b>2018</b> , 4, 1551-1558	16.8	26
148	Conductive, monodisperse polyaniline nanofibers of controlled length using well-defined cylindrical block copolymer micelles as templates. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 13030-9	4.8	25
147	Synthesis of tri-calcium phosphate sponges by interfacial deposition and thermal transformation of self-supporting calcium phosphate films. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 1043		25
146	Error measurements for flank milling. <i>CAD Computer Aided Design</i> , <b>2005</b> , 37, 1459-1468	2.9	25

145	Further characterisation of forms of haemosiderin in iron-overloaded tissues. <i>FEBS Journal</i> , <b>1994</b> , 225, 187-94		25
144	Giant Coacervate Vesicles As an Integrated Approach to Cytomimetic Modeling. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2866-2874	16.4	25
143	Photocatalytic multiphase micro-droplet reactors based on complex coacervation. <i>Chemical Communications</i> , <b>2015</b> , 51, 8600-2	5.8	24
142	Aerosol-Mediated Fabrication of Porous Thin Films Using Ultrasonic Nebulization. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 503-508	9.6	24
141	Liquid viruses by nanoscale engineering of capsid surfaces. <i>Advanced Materials</i> , <b>2012</b> , 24, 4557-63	24	23
140	Isolation of a highly reactive $\beta$ -sheet-rich intermediate of lysozyme in a solvent-free liquid phase. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 8400-7	3.4	22
139	Iterative process for G2-multi degree reduction of B $\ddot{z}$ ier curves. <i>Applied Mathematics and Computation</i> , <b>2011</b> , 217, 8126-8133	2.7	22
138	Hydrophobic proteins: synthesis and characterisation of organic-soluble alkylated ferritins. <i>Chemical Communications</i> , <b>1998</b> , 1621-1622	5.8	22
137	DNA-driven assembly of mesoporous silica/gold satellite nanostructures. <i>Small</i> , <b>2005</b> , 1, 103-6	11	22
136	A novel route to highly porous bioactive silica gels. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 186-190		22
135	A multipoint method for 5-axis machining of triangulated surface models. <i>CAD Computer Aided Design</i> , <b>2014</b> , 52, 17-26	2.9	21
134	Redox transitions in an electrolyte-free myoglobin fluid. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 18311-4	16.4	21
133	Design and construction of artificial photoresponsive protocells capable of converting day light to chemical energy. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24612-24616	13	21
132	On the nature of boundary-organized biomineralization (BOB). <i>Journal of Inorganic Biochemistry</i> , <b>1986</b> , 28, 363-71	4.2	21
131	Bio-inspired protein-gold nanoconstruct with core-void-shell structure: beyond a chemo drug carrier. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 3136-3143	7.3	20
130	Nanoparticle-based membrane assembly and silicification in coacervate microdroplets as a route to complex colloidosomes. <i>Langmuir</i> , <b>2014</b> , 30, 14591-6	4	20
129	Plasmonic Response of Ag- and Au-Infiltrated Cross-Linked Lysozyme Crystals. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 281-290	15.6	20
128	Fabrication of Metal and Metal Oxide Sponges by Self-Bubbled Triton X-45 Hydrogel Templates. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 19871-19874	3.8	20



127	Facile preparation and processing of aqueous dispersions of tris(8-hydroxyquinoline) aluminium(III) photoluminescent nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 3950		20
126	Self-organized structural hierarchy in mixed polysaccharide sponges. <i>Soft Matter</i> , <b>2009</b> , 5, 3081	3.6	19
125	Spontaneous patterning and nanoparticle encapsulation in carboxymethylcellulose/alginate/dextran hydrogels and sponges. <i>Materials Science and Engineering C</i> , <b>2010</b> , 30, 352-356	8.3	19
124	Machine models and tool motions for simulating five-axis machining. <i>CAD Computer Aided Design</i> , <b>2010</b> , 42, 231-237	2.9	19
123	Oriented nucleation of CaCo <sub>3</sub> from metastable solutions under Langmuir monolayers. <i>Journal of Materials Chemistry</i> , <b>1991</b> , 1, 889		19
122	Photoswitchable Phase Separation and Oligonucleotide Trafficking in DNA Coacervate Microdroplets. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14736-14740	3.6	18
121	Self-organization of glucose oxidase-polymer surfactant nanoconstructs in solvent-free soft solids and liquids. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 11573-80	3.4	18
120	Single-step fabrication of multi-compartmentalized biphasic proteinosomes. <i>Chemical Communications</i> , <b>2017</b> , 53, 8537-8540	5.8	18
119	Microemulsion-mediated self-assembly and silicification of mesostructured ferritin nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 4100-3	16.4	18
118	An optimal algorithm for expanding the composition of polynomials. <i>ACM Transactions on Graphics</i> , <b>1997</b> , 16, 155-178	7.6	18
117	Characterization of the Structure of Mesoporous Thin Films Grown at the Air/Water Interface Using X-ray Surface Techniques. <i>Langmuir</i> , <b>2003</b> , 19, 2639-2642	4	18
116	Cubic precision Clough-Tocher interpolation. <i>Computer Aided Geometric Design</i> , <b>1999</b> , 16, 85-88	1.2	18
115	Secretion and Reversible Assembly of Extracellular-like Matrix by Enzyme-Active Colloidosome-Based Protocells. <i>Langmuir</i> , <b>2016</b> , 32, 2912-9	4	17
114	Higher Order Construction of Molecule-Based Magnets. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 4408-4410	9.6	17
113	Biomineralization: a novel approach to crystal engineering. <i>Endeavour</i> , <b>1991</b> , 15, 120-125	0.5	17
112	Chemical and structural characterisation of iron cores of haemosiderins isolated from different sources. <i>FEBS Journal</i> , <b>1992</b> , 209, 847-50		17
111	Mesoscale crystallization of calcium phosphate nanostructures in protein (casein) micelles. <i>Nanoscale</i> , <b>2010</b> , 2, 2400-5	7.7	16
110	Formation of cobalt-Prussian Blue nanoparticles in a biopolymer matrix. <i>Nanoscale</i> , <b>2010</b> , 2, 2370-2	7.7	16

109	Emergent hybrid nanostructures based on non-equilibrium block copolymer self-assembly. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 9476-9	16.4	16
108	Electron diffraction studies of the calcareous skeletons of bryozoans. <i>Journal of Inorganic Biochemistry</i> , <b>2002</b> , 88, 410-9	4.2	16
107	Biochemical studies of the iron cores and polypeptide shells of haemosiderin isolated from patients with primary or secondary haemochromatosis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1989</b> , 993, 131-3	4	16
106	Light-Activated Signaling in DNA-Encoded Sender-Receiver Architectures. <i>ACS Nano</i> , <b>2020</b> , 14, 15992-16007	10.7	16
105	A suite of de novo c-type cytochromes for functional oxidoreductase engineering. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2016</b> , 1857, 493-502	4.6	15
104	Fabrication of polypyrrole nano-arrays in lysozyme single crystals. <i>Nanoscale</i> , <b>2012</b> , 4, 6710-3	7.7	15
103	The effect of pre-coating human bone marrow stromal cells with hydroxyapatite/amino acid nanoconjugates on osteogenesis. <i>Biomaterials</i> , <b>2009</b> , 30, 3174-82	15.6	15
102	Inhibition of hydroxyapatite nanoparticle-induced osteogenic activity in skeletal cells by adsorption of serum proteins. <i>Small</i> , <b>2010</b> , 6, 1986-91	11	15
101	Atomic force microscopy of synthetic barite microcrystals. <i>Journal of Crystal Growth</i> , <b>1997</b> , 172, 231-248	1.6	15
100	In situ imaging of CdS and ZnS semiconductor particles in surfactant vesicles. <i>Journal of Colloid and Interface Science</i> , <b>1990</b> , 138, 295-298	9.3	15
99	Spontaneous membrane-less multi-compartmentalization aqueous two-phase separation in complex coacervate micro-droplets. <i>Chemical Communications</i> , <b>2020</b> , 56, 12717-12720	5.8	15
98	Synthesis and confinement of carbon dots in lysozyme single crystals produces ordered hybrid materials with tuneable luminescence. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 9008-13	4.8	14
97	Linear methods for G1, G2, and G3 Multi-degree reduction of Bézier curves. <i>CAD Computer Aided Design</i> , <b>2013</b> , 45, 405-414	2.9	14
96	Synthetic viruslike particles and hybrid constructs based on lipopeptide self-assembly. <i>Small</i> , <b>2010</b> , 6, 1191-6	11	14
95	Hierarchical self-assembly in molecularly ordered phenylene-bridged mesoporous organosilica nanofilaments. <i>ChemPhysChem</i> , <b>2007</b> , 8, 2363-6	3.2	14
94	Dynamic Behavior in Enzyme-Polymer Surfactant Hydrogel Films. <i>Advanced Materials</i> , <b>2016</b> , 28, 1597-602	4	13
93	Apo ferritin-encapsulated PbS quantum dots significantly inhibit growth of colorectal carcinoma cells. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 6254-6260	7.3	13
92	The differential effect of apo ferritin-PbS nanocomposites on cell cycle progression in normal and cancerous cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 660-665		13

91	Synthesis of cerium/cobalt phosphate nanostructures in cationic reverse micelles. <i>Soft Matter</i> , <b>2006</b> , 2, 603-607	3.6	13
90	In situ Brewster angle microscopy and surface pressure studies on the interfacial growth of mesostructured silica thin films. <i>Chemical Communications</i> , <b>2000</b> , 773-774	5.8	13
89	Polymer-mediated crystallization of inorganic solids: Calcite nucleation on poly(organosiloxane) surfaces. <i>Advanced Materials</i> , <b>1993</b> , 5, 49-51	24	13
88	Precipitation within unilamellar vesicles. Part 2. Membrane control of ion transport. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1983</b> , 771		13
87	Photosynthetic hydrogen production by droplet-based microbial micro-reactors under aerobic conditions. <i>Nature Communications</i> , <b>2020</b> , 11, 5985	17.4	13
86	Modulation of Higher-order Behaviour in Model protocell communities by artificial phagocytosis. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6399-6403	3.6	12
85	Near-Infrared Fluorescent and Magnetic Resonance Dual-Imaging Coacervate Nanoprobes for Trypsin Mapping and Targeted Payload Delivery of Malignant Tumors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17302-17313	9.5	12
84	Enhanced catalytic activity in organic solvents using molecularly dispersed haemoglobin-polymer surfactant constructs. <i>Chemical Communications</i> , <b>2013</b> , 49, 9561-3	5.8	12
83	Novel protein-inorganic nanoparticles prepared by inorganic replication of self-assembled clathrin cages and triskelions. <i>Soft Matter</i> , <b>2008</b> , 4, 2054	3.6	12
82	Fullerates: interaction of divalent metal ions with Langmuir monolayers and multilayers of mono-substituted C <sub>60</sub> malonic acid. <i>Chemical Communications</i> , <b>1996</b> , 611-612	5.8	12
81	Biom mineralisation: Ein neuer Zweig der bioanorganischen Chemie. <i>Chemie in Unserer Zeit</i> , <b>1986</b> , 20, 69-76.	0.2	12
80	Numeric implementation of drop and tilt method of 5-axis tool positioning for machining of triangulated surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2015</b> , 78, 1677-1690 <sup>3,2</sup>		11
79	Bioactive Hybrid Organogels Based on Miniemulsion Synthesis of Morphologically Complex Polymer/Surfactant/Calcium Phosphate Nanostructures. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 5965-5972	9.6	11
78	Mesoscale integration in titania/J-aggregate hybrid nanofibers. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 733-7	16.4	11
77	Interactions of nanoparticles with purple membrane films. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 15635		11
76	Nematic director-induced switching of assemblies of hexagonally packed gold nanorods. <i>Advanced Materials</i> , <b>2012</b> , 24, 4424-9	24	11
75	Hydroxyapatite pattern formation in PVA gels. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 5806-5814	4.3	11
74	Flank Millable Surface Design with Conical and Barrel Tools. <i>Computer-Aided Design and Applications</i> , <b>2008</b> , 5, 461-470	1.4	11

73	Polymer-mediated crystallisation of inorganic solids: calcite nucleation on the surfaces of inorganic polymers. <i>Journal of Materials Chemistry</i> , <b>1994</b> , 4, 1387		11
72	Modeling 3D Geometry in the Clifford Algebra $R(4, 4)$ . <i>Advances in Applied Clifford Algebras</i> , <b>2017</b> , 27, 3039-3062	1	10
71	Nucleotide-Based Templates for Nanoparticle Production Exploiting Multiple Noncovalent Interactions. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3270-3274	9.6	10
70	Structural studies of lipid fibers formed by sphingosine. <i>Lipids and Lipid Metabolism</i> , <b>1993</b> , 1166, 154-62		10
69	$R(4, 4)$ As a Computational Framework for 3-Dimensional Computer Graphics. <i>Advances in Applied Clifford Algebras</i> , <b>2015</b> , 25, 113-149	1	9
68	Lectin-Glycan-Mediated Nanoparticle Docking as a Step toward Programmable Membrane Catalysis and Adhesion in Synthetic Protocells. <i>ACS Nano</i> , <b>2020</b> , 14, 7899-7910	16.7	9
67	The edgeBorus tangency problem in multipoint machining of triangulated surface models. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 82, 1959-1972	3.2	9
66	In situ precipitation of amorphous and crystalline calcium sulphates in cellulose thin films. <i>CrystEngComm</i> , <b>2014</b> , 16, 3843-3847	3.3	9
65	Calcium sulfate hemihydrate-mediated crystallization of gypsum on $Ca^{2+}$ -activated cellulose thin films. <i>CrystEngComm</i> , <b>2013</b> , 15, 3793-3798	3.3	9
64	Immobilisation and encapsulation of functional protein-inorganic constructs. <i>Molecular BioSystems</i> , <b>2009</b> , 5, 744-9		9
63	Parametric triangular Bzier surface interpolation with approximate continuity <b>2008</b> ,		9
62	Nanoscale organization of cadmium sulfide quantum dots on structurally persistent dendro-calixarene micelles. <i>Small</i> , <b>2007</b> , 3, 2057-60	11	9
61	Polyelectrolyte-mediated synthesis and self-assembly of silicalite nanocrystals into linear chain superstructures. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 111		9
60	Location of biological compartments by high resolution n.m.r. spectroscopy and electron microscopy using magnetite-containing vesicles. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1979</b> , 1067		9
59	The artificial cell: biology-inspired compartmentalization of chemical function. <i>Interface Focus</i> , <b>2018</b> , 8, 20180046	3.9	8
58	A topological-free method for three-axis tool path planning for generalized radiused end milled cutting of a triangular mesh surface. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 70, 1813-1825	3.2	8
57	Biopolymer-mediated synthesis of anisotropic piezoelectric nanorods. <i>Chemical Communications</i> , <b>2010</b> , 46, 4887-9	5.8	8
56	Structure and properties of silicified purple membrane thin films. <i>Biomacromolecules</i> , <b>2009</b> , 10, 2767-71	6.9	8

55	Integrative self-assembly of functional hybrid nanoconstructs by inorganic wrapping of single biomolecules, biomolecule arrays and organic supramolecular assemblies. <i>Nanoscale</i> , <b>2013</b> , 5, 7161-74	7.7	7
54	High-Temperature Electrochemistry of a Solvent-Free Myoglobin Melt. <i>ChemElectroChem</i> , <b>2015</b> , 2, 976-983	7.3	7
53	NURBS approximation to the flank-milled surface swept by a cylindrical NC tool. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2012</b> , 61, 35-51	3.2	7
52	Fabrication of functional bioinorganic nanoconstructs by polymer-silica wrapping of individual myoglobin molecules. <i>Nanoscale</i> , <b>2011</b> , 3, 1031-6	7.7	7
51	Assembly of poly(methacrylate)/purple membrane lamellar nanocomposite films by intercalation and in situ polymerisation. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9037		7
50	Single controlled axis lathe mill. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2007</b> , 32, 55-65	3.2	7
49	Interfacial oxidation of decamethylferrocene by hexacyanoferrate: synthesis and characterization of $[\text{Fe}^{\text{III}}(\text{C}_5\text{Me}_5)_2]_3[\text{Fe}^{\text{III}}(\text{CN})_6]_2\text{CH}_2\text{Cl}_2 \cdot 6\text{H}_2\text{O}$ . <i>Polyhedron</i> , <b>2001</b> , 20, 2467-2472	2.7	7
48	Computing values and derivatives of Bézier and B-spline tensor products. <i>Computer Aided Geometric Design</i> , <b>1995</b> , 12, 107-110	1.2	7
47	Making radiosity usable <b>1991</b> ,		7
46	Chemical-mediated translocation in protocell-based microactuators. <i>Nature Chemistry</i> , <b>2021</b> , 13, 868-879	7.6	7
45	A multipoint tool positioning method for five-axis machining in the region of two intersecting tensor product Bézier surfaces. <i>International Journal of Machine Tools and Manufacture</i> , <b>2019</b> , 142, 42-53	9.4	6
44	An efficient multipoint 5-axis tool positioning method for tensor product surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 97, 279-295	3.2	6
43	Response-Retaliatio Behavior in Synthetic Protocell Communities. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 17922-17927	3.6	6
42	In situ X-ray reflectivity studies of molecular and molecular-cluster intercalation within purple membrane films. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 5447-5452	7.1	6
41	G-Quadruplex-Induced Liquid-Liquid Phase Separation in Biomimetic Protocells. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 11036-11043	16.4	6
40	Inorganic/Organic Nanotube Composites from Template Mineralization of Tobacco Mosaic Virus <b>1999</b> , 11, 253		6
39	Numerical implementation of drop and tilt method of five-axis tool positioning for tensor product surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 95, 219-232	3.2	5
38	Biotechnological horizons in biomineralization. <i>Trends in Biotechnology</i> , <b>1987</b> , 5, 309-314	15.1	5

37	Detecting machine chatter using audio data and machine learning. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 108, 3707-3716	3.2	4
36	Construction of supramolecular hydrogels using photo-generated nitric oxide radicals. <i>Soft Matter</i> , <b>2018</b> , 14, 5950-5954	3.6	4
35	Drop and tilt method of five-axis tool positioning for tensor product surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 93, 617-622	3.2	4
34	Tris(8-hydroxyquinolino)gallium(III)-loaded copolymer micelles as cytotoxic nanoconstructs for cosolvent-free organometallic drug delivery. <i>Small</i> , <b>2011</b> , 7, 1635-40	11	4
33	Approximate continuity for parametric Bézier patches <b>2007</b> ,		4
32	Preparation of Ag <sub>2</sub> O crystallites within phospholipid vesicles and their use in nucleation studies. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1980</b> , 634		4
31	Triggerable Protocell Capture in Nanoparticle-Caged Coacervate Microdroplets.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	4
30	Computing Perspective Projections in 3-Dimensions Using Rotors in the Homogeneous and Conformal Models of Clifford Algebra. <i>Advances in Applied Clifford Algebras</i> , <b>2014</b> , 24, 465-491	1	3
29	Electrochemical crystallization of spatially organized copper microwire arrays within biomineralized (dentine) templates. <i>CrystEngComm</i> , <b>2013</b> , 15, 7152	3.3	3
28	Scallop Height of 5-axis Machining of Large Triangles with a Flat End Mill. <i>Computer-Aided Design and Applications</i> , <b>2015</b> , 12, 710-716	1.4	3
27	Vortex Detection in Vector Fields Using Geometric Algebra. <i>Advances in Applied Clifford Algebras</i> , <b>2014</b> , 24, 423-442	1	3
26	Accuracy improvement method for flank milling surface design. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2008</b> , 38, 218-228	3.2	3
25	A New Paradigm for Woodworking with NC Machines. <i>Computer-Aided Design and Applications</i> , <b>2004</b> , 1, 217-222	1.4	3
24	Adjusting control points to achieve continuity. <i>Computer Aided Geometric Design</i> , <b>2002</b> , 19, 589-602	1.2	3
23	A method for generating multiple solutions for multipoint five-axis tool positioning. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 100, 2509-2520	3.2	3
22	3D representation and CNC machining of 2D digital images. <i>Procedia Manufacturing</i> , <b>2018</b> , 26, 10-20	1.5	3
21	Multipoint tool positioning of a toroidal end mill for five-axis machining of generalized tensor product Bézier surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 111, 495-503	3.2	2
20	DKP algebra, DKP equation, and differential forms. <i>Journal of Mathematical Physics</i> , <b>2018</b> , 59, 083506	1.2	2

19	Self-organized approach to modeling hydraulic erosion features. <i>Computers and Graphics</i> , <b>2013</b> , 37, 280-292	2	2
18	Contrast in electron-transfer mediation between graphene oxide and reduced graphene oxide. <i>ChemPhysChem</i> , <b>2012</b> , 13, 2956-63	3.2	2
17	Mesostructured silica hybrids from liquid polyelectrolyte-surfactant-aminosilanol complexes. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 5736		2
16	Membrane stabilization and transformation in organoclay-vesicle hybrid constructs. <i>Soft Matter</i> , <b>2009</b> , 5, 2183	3.6	2
15	Skeletons on the brain. <i>Advanced Materials</i> , <b>1996</b> , 8, 183-183	24	2
14	A Novel Acid-Degradable PEG Crosslinker for the Fabrication of pH-Responsive Soft Materials. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2100102	4.8	2
13	Paravectors and the Geometry of 3D Euclidean Space. <i>Advances in Applied Clifford Algebras</i> , <b>2018</b> , 28, 1	1	2
12	A new approach to find gouge free tool positions for a toroidal cutter for Bézier surfaces in five-axis machining. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 117, 3053	3.2	2
11	Elastic Magnets: Template-Controlled Mineralization of Iron Oxide Colloids in a Sponge-like Gel Matrix <b>1998</b> , 10, 237		2
10	Emergence and dynamics of self-producing information niches as a step towards pre-evolutionary organization. <i>Journal of the Royal Society Interface</i> , <b>2018</b> , 15,	4.1	1
9	Extending the A-patch single sheet conditions to enable the tessellation of algebraics <b>2009</b> ,		1
8	Flank Millable Surfaces Generated via Polynomial Composition. <i>Computer-Aided Design and Applications</i> , <b>2007</b> , 4, 41-48	1.4	1
7	On the empirical limits of billboard rotation <b>2007</b> ,		1
6	A Blossoming Development of Splines. <i>Synthesis Lectures on Computer Graphics and Animation</i> , <b>2006</b> , 1, 1-108		1
5	Polymer-Surfactant Driven Interactions and the Resultant Microstructure in Protein-Containing Liquid Crystal Droplets. <i>Langmuir</i> , <b>2021</b> , 37, 11949-11960	4	0
4	Targeted WebCAD. <i>Computer-Aided Design and Applications</i> , <b>2009</b> , 6, 639-644	1.4	
3	Numerical Verification of CNC Machine Simulations. <i>Computer-Aided Design and Applications</i> , <b>2011</b> , 8, 507-518	1.4	
2	On the Clifford Algebraic Description of Transformations in a 3D Euclidean Space. <i>Advances in Applied Clifford Algebras</i> , <b>2020</b> , 30, 1	1	

- 1 Numerical implementation of drop spin and tilt method for five-axis tool positioning for tensor product surfaces. *International Journal of Advanced Manufacturing Technology*, **2021**, 115, 2001

3.2