

Stephen Mann

List of Publications by Year in Descending Order

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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	Triggerable Protocell Capture in Nanoparticle-Caged Coacervate Microdroplets.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	4
395	Polymer-Surfactant Driven Interactions and the Resultant Microstructure in Protein-Containing Liquid Crystal Droplets. <i>Langmuir</i> , 2021 , 37, 11949-11960	4	0
394	A Novel Acid-Degradable PEG Crosslinker for the Fabrication of pH-Responsive Soft Materials. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100102	4.8	2
393	Numerical implementation of drop spin and tilt method for five-axis tool positioning for tensor product surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 115, 2001	3.2	
392	Chemical-mediated translocation in protocell-based microactuators. <i>Nature Chemistry</i> , 2021 , 13, 868-879	17.6	7
391	Giant Coacervate Vesicles As an Integrated Approach to Cytomimetic Modeling. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2866-2874	16.4	25
390	G-Quadruplex-Induced Liquid-Liquid Phase Separation in Biomimetic Protocells. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11036-11043	16.4	6
389	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> , 2021 , 117, 3053	3.2	2
388	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> , 2020 , 111, 495-503	3.2	2
387	Lectin-Glycan-Mediated Nanoparticle Docking as a Step toward Programmable Membrane Catalysis and Adhesion in Synthetic Protocells. <i>ACS Nano</i> , 2020 , 14, 7899-7910	16.7	9
386	Detecting machine chatter using audio data and machine learning. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 108, 3707-3716	3.2	4
385	Near-Infrared Fluorescent and Magnetic Resonance Dual-Imaging Coacervate Nanoprobes for Trypsin Mapping and Targeted Payload Delivery of Malignant Tumors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17302-17313	9.5	12
384	Light-Activated Signaling in DNA-Encoded Sender-Receiver Architectures. <i>ACS Nano</i> , 2020 , 14, 15992-16007	17.6	16
383	Enzyme-mediated nitric oxide production in vasoactive erythrocyte membrane-enclosed coacervate protocells. <i>Nature Chemistry</i> , 2020 , 12, 1165-1173	17.6	33
382	Photosynthetic hydrogen production by droplet-based microbial micro-reactors under aerobic conditions. <i>Nature Communications</i> , 2020 , 11, 5985	17.4	13
381	On the Clifford Algebraic Description of Transformations in a 3D Euclidean Space. <i>Advances in Applied Clifford Algebras</i> , 2020 , 30, 1	1	
380	Spontaneous membrane-less multi-compartmentalization aqueous two-phase separation in complex coacervate micro-droplets. <i>Chemical Communications</i> , 2020 , 56, 12717-12720	5.8	15

379	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> , 2019 , 142, 42-53	9.4	6
378	Modulation of Higher-order Behaviour in Model Protocell Communities by Artificial Phagocytosis. <i>Angewandte Chemie</i> , 2019 , 131, 6399-6403	3.6	12
377	Modulation of Higher-order Behaviour in Model Protocell Communities by Artificial Phagocytosis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6333-6337	16.4	30
376	Photoswitchable Phase Separation and Oligonucleotide Trafficking in DNA Coacervate Microdroplets. <i>Angewandte Chemie</i> , 2019 , 131, 14736-14740	3.6	18
375	Photoswitchable Phase Separation and Oligonucleotide Trafficking in DNA Coacervate Microdroplets. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14594-14598	16.4	65
374	Response-Retaliatio Behavior in Synthetic Protocell Communities. <i>Angewandte Chemie</i> , 2019 , 131, 17926-17927	3.6	12
373	Response-Retaliatio Behavior in Synthetic Protocell Communities. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17758-17763	16.4	27
372	Chemical communication in spatially organized protocell colonies and protocell/living cell micro-arrays. <i>Chemical Science</i> , 2019 , 10, 9446-9453	9.4	43
371	A method for generating multiple solutions for multipoint five-axis tool positioning. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 2509-2520	3.2	3
370	An efficient multipoint 5-axis tool positioning method for tensor product surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 279-295	3.2	6
369	Emergence and dynamics of self-producing information niches as a step towards pre-evolutionary organization. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	1
368	Chloroplast-containing coacervate micro-droplets as a step towards photosynthetically active membrane-free protocells. <i>Chemical Communications</i> , 2018 , 54, 3594-3597	5.8	41
367	Numerical implementation of drop and tilt method of five-axis tool positioning for tensor product surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 219-232	3.2	5
366	Construction of supramolecular hydrogels using photo-generated nitric oxide radicals. <i>Soft Matter</i> , 2018 , 14, 5950-5954	3.6	4
365	Enzyme-powered motility in buoyant organoclay/DNA protocells. <i>Nature Chemistry</i> , 2018 , 10, 1154-1163	17.6	68
364	DKP algebra, DKP equation, and differential forms. <i>Journal of Mathematical Physics</i> , 2018 , 59, 083506	1.2	2
363	The artificial cell: biology-inspired compartmentalization of chemical function. <i>Interface Focus</i> , 2018 , 8, 20180046	3.9	8
362	3D representation and CNC machining of 2D digital images. <i>Procedia Manufacturing</i> , 2018 , 26, 10-20	1.5	3

361	Nonequilibrium Spatiotemporal Sensing within Acoustically Patterned Two-Dimensional Protocell Arrays. <i>ACS Central Science</i> , 2018 , 4, 1551-1558	16.8	26
360	Paravectors and the Geometry of 3D Euclidean Space. <i>Advances in Applied Clifford Algebras</i> , 2018 , 28, 1	1	2
359	Modeling 3D Geometry in the Clifford Algebra $R(4, 4)$. <i>Advances in Applied Clifford Algebras</i> , 2017 , 27, 3039-3062	1	10
358	Drop and tilt method of five-axis tool positioning for tensor product surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 617-622	3.2	4
357	Design and construction of artificial photoresponsive protocells capable of converting day light to chemical energy. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24612-24616	13	21
356	Single-step fabrication of multi-compartmentalized biphasic proteinosomes. <i>Chemical Communications</i> , 2017 , 53, 8537-8540	5.8	18
355	Non-equilibrium behaviour in coacervate-based protocells under electric-field-induced excitation. <i>Nature Communications</i> , 2016 , 7, 10658	17.4	69
354	Chemical Signaling and Functional Activation in Colloidosome-Based Protocells. <i>Small</i> , 2016 , 12, 1920-7	11	81
353	Dynamic Behavior in Enzyme-Polymer Surfactant Hydrogel Films. <i>Advanced Materials</i> , 2016 , 28, 1597-6024	4	13
352	Selective Uptake and Refolding of Globular Proteins in Coacervate Microdroplets. <i>Langmuir</i> , 2016 , 32, 5881-9	4	57
351	Secretion and Reversible Assembly of Extracellular-like Matrix by Enzyme-Active Colloidosome-Based Protocells. <i>Langmuir</i> , 2016 , 32, 2912-9	4	17
350	The edge-torus tangency problem in multipoint machining of triangulated surface models. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 82, 1959-1972	3.2	9
349	A suite of de novo c-type cytochromes for functional oxidoreductase engineering. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016 , 1857, 493-502	4.6	15
348	Hierarchical Proteinosomes for Programmed Release of Multiple Components. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7095-100	16.4	96
347	$R(4, 4)$ As a Computational Framework for 3-Dimensional Computer Graphics. <i>Advances in Applied Clifford Algebras</i> , 2015 , 25, 113-149	1	9
346	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> , 2015 , 78, 1677-1690	3.2	11
345	Artificial membrane-binding proteins stimulate oxygenation of stem cells during engineering of large cartilage tissue. <i>Nature Communications</i> , 2015 , 6, 7405	17.4	53
344	In vitro gene expression within membrane-free coacervate protocells. <i>Chemical Communications</i> , 2015 , 51, 11429-32	5.8	122

343	Chlorhexidine hexametaphosphate nanoparticles as a novel antimicrobial coating for dental implants. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 201	4.5	36
342	Photocatalytic multiphase micro-droplet reactors based on complex coacervation. <i>Chemical Communications</i> , 2015 , 51, 8600-2	5.8	24
341	Multimodal plasmonics in fused colloidal networks. <i>Nature Materials</i> , 2015 , 14, 87-94	27	48
340	Synthesis and confinement of carbon dots in lysozyme single crystals produces ordered hybrid materials with tuneable luminescence. <i>Chemistry - A European Journal</i> , 2015 , 21, 9008-13	4.8	14
339	Microfluidic Formation of Membrane-Free Aqueous Coacervate Droplets in Water. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8398-401	16.4	60
338	High-Temperature Electrochemistry of a Solvent-Free Myoglobin Melt. <i>ChemElectroChem</i> , 2015 , 2, 976-983	4.3	7
337	Scallop Height of 5-axis Machining of Large Triangles with a Flat End Mill. <i>Computer-Aided Design and Applications</i> , 2015 , 12, 710-716	1.4	3
336	Structure and function of the silicifying peptide R5. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2607-2614	7.3	49
335	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> , 2014 , 70, 1813-1825	3.2	8
334	A multipoint method for 5-axis machining of triangulated surface models. <i>CAD Computer Aided Design</i> , 2014 , 52, 17-26	2.9	21
333	Fatty acid membrane assembly on coacervate microdroplets as a step towards a hybrid protocell model. <i>Nature Chemistry</i> , 2014 , 6, 527-33	17.6	238
332	Molecular dynamics simulations reveal a dielectric-responsive coronal structure in protein-polymer surfactant hybrid nanoconstructs. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16824-31	16.4	35
331	Multifunctional porous microspheres based on peptide-porphyrin hierarchical co-assembly. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2366-70	16.4	143
330	In situ precipitation of amorphous and crystalline calcium sulphates in cellulose thin films. <i>CrystEngComm</i> , 2014 , 16, 3843-3847	3.3	9
329	In situ X-ray reflectivity studies of molecular and molecular-cluster intercalation within purple membrane films. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5447-5452	7.1	6
328	Bioactive Hybrid Organogels Based on Miniemulsion Synthesis of Morphologically Complex Polymer/Surfactant/Calcium Phosphate Nanostructures. <i>Chemistry of Materials</i> , 2014 , 26, 5965-5972	9.6	11
327	Spontaneous structuration in coacervate-based protocells by polyoxometalate-mediated membrane assembly. <i>Small</i> , 2014 , 10, 1830-40	11	57
326	Synthetic cellularity based on non-lipid micro-compartments and protocell models. <i>Current Opinion in Chemical Biology</i> , 2014 , 22, 1-11	9.7	125

- 325 Spontaneous growth and division in self-reproducing inorganic colloidosomes. *Small*, **2014**, 10, 3291-8 11 66
- 324 Self-organization of glucose oxidase-polymer surfactant nanoconstructs in solvent-free soft solids and liquids. *Journal of Physical Chemistry B*, **2014**, 118, 11573-80 3-4 18
- 323 Enzyme activity in liquid lipase melts as a step towards solvent-free biology at 150 °C. *Nature Communications*, **2014**, 5, 5058 17.4 62
- 322 Computing Perspective Projections in 3-Dimensions Using Rotors in the Homogeneous and Conformal Models of Clifford Algebra. *Advances in Applied Clifford Algebras*, **2014**, 24, 465-491 1 3
- 321 Membrane-mediated cascade reactions by enzyme-polymer proteinosomes. *Chemical Communications*, **2014**, 50, 6278-80 5.8 73
- 320 Design and construction of higher-order structure and function in proteinosome-based protocells. *Journal of the American Chemical Society*, **2014**, 136, 9225-34 16.4 131
- 319 Membrane engineering of colloidosome microcompartments using partially hydrophobic mesoporous silica nanoparticles. *Langmuir*, **2014**, 30, 15047-52 4 37
- 318 Nanoparticle-based membrane assembly and silicification in coacervate microdroplets as a route to complex colloidosomes. *Langmuir*, **2014**, 30, 14591-6 4 20
- 317 Vortex Detection in Vector Fields Using Geometric Algebra. *Advances in Applied Clifford Algebras*, **2014**, 24, 423-442 1 3
- 316 Interfacial assembly of protein-polymer nano-conjugates into stimulus-responsive biomimetic protocells. *Nature Communications*, **2013**, 4, 2239 17.4 316
- 315 Integrative self-assembly of functional hybrid nanoconstructs by inorganic wrapping of single biomolecules, biomolecule arrays and organic supramolecular assemblies. *Nanoscale*, **2013**, 5, 7161-74 7.7 7
- 314 Redox transitions in an electrolyte-free myoglobin fluid. *Journal of the American Chemical Society*, **2013**, 135, 18311-4 16.4 21
- 313 Conductive, monodisperse polyaniline nanofibers of controlled length using well-defined cylindrical block copolymer micelles as templates. *Chemistry - A European Journal*, **2013**, 19, 13030-9 4.8 25
- 312 Electrochemical crystallization of spatially organized copper microwire arrays within biomineralized (dentine) templates. *CrystEngComm*, **2013**, 15, 7152 3.3 3
- 311 Apoferritin-encapsulated PbS quantum dots significantly inhibit growth of colorectal carcinoma cells. *Journal of Materials Chemistry B*, **2013**, 1, 6254-6260 7.3 13
- 310 Small-molecule uptake in membrane-free peptide/nucleotide protocells. *Soft Matter*, **2013**, 9, 7647 3.6 47
- 309 Enhanced catalytic activity in organic solvents using molecularly dispersed haemoglobin-polymer surfactant constructs. *Chemical Communications*, **2013**, 49, 9561-3 5.8 12
- 308 Bio-inspired protein-gold nanoconstruct with core-void-shell structure: beyond a chemo drug carrier. *Journal of Materials Chemistry B*, **2013**, 1, 3136-3143 7.3 20

307	The origins of life: old problems, new chemistries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 155-62	16.4	103
306	Self-organized approach to modeling hydraulic erosion features. <i>Computers and Graphics</i> , 2013 , 37, 280-292		2
305	Enzymatically active self-standing protein-polymer surfactant films prepared by hierarchical self-assembly. <i>Advanced Materials</i> , 2013 , 25, 2005-10	24	33
304	Influence of particle size and reactive oxygen species on cobalt chrome nanoparticle-mediated genotoxicity. <i>Biomaterials</i> , 2013 , 34, 3559-70	15.6	64
303	Directing chondrogenesis of stem cells with specific blends of cellulose and silk. <i>Biomacromolecules</i> , 2013 , 14, 1287-98	6.9	48
302	Calcium sulfate hemihydrate-mediated crystallization of gypsum on Ca ²⁺ -activated cellulose thin films. <i>CrystEngComm</i> , 2013 , 15, 3793-3798	3.3	9
301	Electrostatically gated membrane permeability in inorganic protocells. <i>Nature Chemistry</i> , 2013 , 5, 529-36	17.6	190
300	Linear methods for G1, G2, and G3 B-spline multi-degree reduction of Bézier curves. <i>CAD Computer Aided Design</i> , 2013 , 45, 405-414	2.9	14
299	Artificial cytoskeletal structures within enzymatically active bio-inorganic protocells. <i>Small</i> , 2013 , 9, 357-62		42
298	Controlled assembly of Sb ₂ S ₃ nanoparticles on silica/polymer nanotubes: insights into the nature of hybrid interfaces. <i>Scientific Reports</i> , 2013 , 3, 1336	4.9	29
297	Isolation of a highly reactive sheet-rich intermediate of lysozyme in a solvent-free liquid phase. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 8400-7	3.4	22
296	Plasmonic Response of Ag- and Au-Infiltrated Cross-Linked Lysozyme Crystals. <i>Advanced Functional Materials</i> , 2013 , 23, 281-290	15.6	20
295	Mesoscale integration in titania/J-aggregate hybrid nanofibers. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 733-7	16.4	11
294	Systems of creation: the emergence of life from nonliving matter. <i>Accounts of Chemical Research</i> , 2012 , 45, 2131-41	24.3	162
293	Interactions of nanoparticles with purple membrane films. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15635		11
292	Stabilization and enhanced reactivity of actinorhodin polyketide synthase minimal complex in polymer-nucleotide coacervate droplets. <i>Chemical Communications</i> , 2012 , 48, 11832-4	5.8	77
291	Polymer/nucleotide droplets as bio-inspired functional micro-compartments. <i>Soft Matter</i> , 2012 , 8, 6004	3.6	76
290	The differential effect of apoferritin-PbS nanocomposites on cell cycle progression in normal and cancerous cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 660-665		13

289	Fabrication of polypyrrole nano-arrays in lysozyme single crystals. <i>Nanoscale</i> , 2012 , 4, 6710-3	7.7	15
288	Designs for life: protocell models in the laboratory. <i>Chemical Society Reviews</i> , 2012 , 41, 79-85	58.5	191
287	Hyper-thermal stability and unprecedented re-folding of solvent-free liquid myoglobin. <i>Chemical Science</i> , 2012 , 3, 1839	9.4	40
286	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> , 2012 , 134, 13168-71	16.4	41
285	Liquid viruses by nanoscale engineering of capsid surfaces. <i>Advanced Materials</i> , 2012 , 24, 4557-63	24	23
284	Nematic director-induced switching of assemblies of hexagonally packed gold nanorods. <i>Advanced Materials</i> , 2012 , 24, 4424-9	24	11
283	Contrast in electron-transfer mediation between graphene oxide and reduced graphene oxide. <i>ChemPhysChem</i> , 2012 , 13, 2956-63	3.2	2
282	Cerium oxide nanoparticle-mediated self-assembly of hybrid supramolecular hydrogels. <i>Chemical Communications</i> , 2012 , 48, 7934-6	5.8	26
281	NURBS approximation to the flank-milled surface swept by a cylindrical NC tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 61, 35-51	3.2	7
280	In vitro gene expression and enzyme catalysis in bio-inorganic protocells. <i>Chemical Science</i> , 2011 , 2, 1739-4	9.4	83
279	Synthesis of fluorescent core-shell hydroxyapatite nanoparticles. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1250-1254		40
278	Fabrication of functional bioinorganic nanoconstructs by polymer-silica wrapping of individual myoglobin molecules. <i>Nanoscale</i> , 2011 , 3, 1031-6	7.7	7
277	A flexible one-pot route to metal/metal oxide nanocomposites. <i>Green Chemistry</i> , 2011 , 13, 272-275	10	37
276	Peptide-nucleotide microdroplets as a step towards a membrane-free protocell model. <i>Nature Chemistry</i> , 2011 , 3, 720-4	17.6	333
275	Tris(8-hydroxyquinolino)gallium(III)-loaded copolymer micelles as cytotoxic nanoconstructs for cosolvent-free organometallic drug delivery. <i>Small</i> , 2011 , 7, 1635-40	11	4
274	A Generalized Mechanism for Ligand-Induced Dipolar Assembly of Plasmonic Gold Nanoparticle Chain Networks. <i>Advanced Functional Materials</i> , 2011 , 21, 851-859	15.6	80
273	Guest-Molecule-Directed Assembly of Mesostructured Nanocomposite Polymer/Organoclay Hydrogels. <i>Advanced Functional Materials</i> , 2011 , 21, 674-681	15.6	77
272	Hierarchical Self-assembly of Microscale Cog-like Superstructures for Enhanced Performance in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2011 , 21, 3516-3523	15.6	94

271	Bio-inspired complementary photoconductor by porphyrin-coated silicon nanowires. <i>Advanced Materials</i> , 2011 , 23, 3979-83	24	26
270	Cytoskeletal-like supramolecular assembly and nanoparticle-based motors in a model protocell. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9343-7	16.4	50
269	Engineered synthetic virus-like particles and their use in vaccine delivery. <i>ChemBioChem</i> , 2011 , 12, 100-93.8	46	
268	Supramolecular hydrogels derived from silver ion-mediated self-assembly of 5'-guanosine monophosphate. <i>Soft Matter</i> , 2011 , 7, 8120	3.6	50
267	Electrospun mats of PVP/ACP nanofibres for remineralization of enamel tooth surfaces. <i>CrystEngComm</i> , 2011 , 13, 3692	3.3	32
266	Liquid proteins--a new frontier for biomolecule-based nanoscience. <i>ACS Nano</i> , 2011 , 5, 6085-91	16.7	47
265	Iterative process for G2-multi degree reduction of Bézier curves. <i>Applied Mathematics and Computation</i> , 2011 , 217, 8126-8133	2.7	22
264	Numerical Verification of CNC Machine Simulations. <i>Computer-Aided Design and Applications</i> , 2011 , 8, 507-518	1.4	
263	Reversible dioxygen binding in solvent-free liquid myoglobin. <i>Nature Chemistry</i> , 2010 , 2, 622-6	17.6	89
262	Biopolymer-mediated synthesis of anisotropic piezoelectric nanorods. <i>Chemical Communications</i> , 2010 , 46, 4887-9	5.8	8
261	Alginate-mediated routes to the selective synthesis of complex metal oxide nanostructures. <i>CrystEngComm</i> , 2010 , 12, 1410	3.3	47
260	From natural attapulgite to mesoporous materials: methodology, characterization and structural evolution. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 2390-8	3.4	113
259	One-step hydrothermal fabrication and photocatalytic activity of surface-fluorinated TiO ₂ hollow microspheres and tabular anatase single micro-crystals with high-energy facets. <i>CrystEngComm</i> , 2010 , 12, 872-879	3.3	226
258	Self-Assembly of Electrically Conducting Biopolymer Thin Films by Cellulose Regeneration in Gold Nanoparticle Aqueous Dispersions. <i>Chemistry of Materials</i> , 2010 , 22, 2675-2680	9.6	33
257	Ligand-mediated self-assembly of polymer-enveloped gold nanoparticle chains and networks. <i>Chemical Communications</i> , 2010 , 46, 7602-4	5.8	28
256	Mesoscale crystallization of calcium phosphate nanostructures in protein (casein) micelles. <i>Nanoscale</i> , 2010 , 2, 2400-5	7.7	16
255	Formation of cobalt-Prussian Blue nanoparticles in a biopolymer matrix. <i>Nanoscale</i> , 2010 , 2, 2370-2	7.7	16
254	Mesostructured silica hybrids from liquid polyelectrolyte-surfactant-aminosilanol complexes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5736		2

253	Assembly of poly(methacrylate)/purple membrane lamellar nanocomposite films by intercalation and in situ polymerisation. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9037		7
252	Microemulsion-mediated self-assembly and silicification of mesostructured ferritin nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4100-3	16.4	18
251	Spontaneous patterning and nanoparticle encapsulation in carboxymethylcellulose/alginate/dextran hydrogels and sponges. <i>Materials Science and Engineering C</i> , 2010 , 30, 352-356	8.3	19
250	Machine models and tool motions for simulating five-axis machining. <i>CAD Computer Aided Design</i> , 2010 , 42, 231-237	2.9	19
249	Inhibition of hydroxyapatite nanoparticle-induced osteogenic activity in skeletal cells by adsorption of serum proteins. <i>Small</i> , 2010 , 6, 1986-91	11	15
248	Synthetic viruslike particles and hybrid constructs based on lipopeptide self-assembly. <i>Small</i> , 2010 , 6, 1191-6	11	14
247	Extending the A-patch single sheet conditions to enable the tessellation of algebraics 2009 ,		1
246	Targeted WebCAD. <i>Computer-Aided Design and Applications</i> , 2009 , 6, 639-644	1.4	
245	Bone-like Resorbable Silk-based Scaffolds for Load-bearing Osteoregenerative Applications. <i>Advanced Materials</i> , 2009 , 21, 75-78	24	71
244	Fabrication of Continuous and Segmented Polymer/Metal Oxide Nanowires Using Cylindrical Micelles and Block Copolymers as Templates. <i>Advanced Materials</i> , 2009 , 21, 1805-1808	24	94
243	Fabrication of Graphene/Polymer Nanocomposites With Higher-Order Three-Dimensional Architectures. <i>Advanced Materials</i> , 2009 , 21, 2180-2184	24	539
242	Aqueous Stabilization and Self-Assembly of Graphene Sheets into Layered Bio-Nanocomposites using DNA. <i>Advanced Materials</i> , 2009 , 21, 3159-3164	24	425
241	Chemical infiltration during atomic layer deposition: metalation of porphyrins as model substrates. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4982-5	16.4	41
240	Augmentation of skeletal tissue formation in impaction bone grafting using vaterite microsphere biocomposites. <i>Biomaterials</i> , 2009 , 30, 1918-27	15.6	30
239	Hydroxyapatite pattern formation in PVA gels. <i>Journal of Materials Science</i> , 2009 , 44, 5806-5814	4.3	11
238	The biocompatibility of apoferritin-encapsulated PbS quantum dots. <i>Small</i> , 2009 , 5, 1738-41	11	38
237	Self-assembly and transformation of hybrid nano-objects and nanostructures under equilibrium and non-equilibrium conditions. <i>Nature Materials</i> , 2009 , 8, 781-92	27	775
236	Nanoparticles can cause DNA damage across a cellular barrier. <i>Nature Nanotechnology</i> , 2009 , 4, 876-83	28.7	303

235	Template-free hydrothermal fabrication of hierarchically organized γ -AlOOH hollow microspheres. <i>Microporous and Mesoporous Materials</i> , 2009 , 122, 42-47	5.3	95
234	The effect of pre-coating human bone marrow stromal cells with hydroxyapatite/amino acid nanoconjugates on osteogenesis. <i>Biomaterials</i> , 2009 , 30, 3174-82	15.6	15
233	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> , 2009 , 4, 1050-4	4.5	38
232	Nucleotide-Based Templates for Nanoparticle Production Exploiting Multiple Noncovalent Interactions. <i>Chemistry of Materials</i> , 2009 , 21, 3270-3274	9.6	10
231	Fabrication of Metal and Metal Oxide Sponges by Self-Bubbled Triton X-45 Hydrogel Templates. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19871-19874	3.8	20
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