

Trevor Douglas

List of Publications by Year in descending order

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197
papers

16,194
citations

13865

67
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17592

121
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205
docs citations

205
times ranked

11351
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-Particulate Platforms for Vaccine Delivery to Enhance Antigen-Specific CD8+ T-Cell Response. <i>Methods in Molecular Biology</i> , 2022, 2412, 367-398.	0.9	0
2	Bioinspired Approaches to Self-Assembly of Virus-like Particles: From Molecules to Materials. <i>Accounts of Chemical Research</i> , 2022, 55, 1349-1359.	15.6	21
3	Multilayered Ordered Protein Arrays Self-Assembled from a Mixed Population of Virus-like Particles. <i>ACS Nano</i> , 2022, 16, 7662-7673.	14.6	8
4	Electromechanical Photophysics of GFP Packed Inside Viral Protein Cages Probed by Force-Fluorescence Hybrid Single-Molecule Microscopy. <i>Small</i> , 2022, 18, .	10.0	7
5	Protein nanocage architectures for the delivery of therapeutic proteins. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 51, 101395.	7.4	19
6	Fluctuating nonlinear spring theory: Strength, deformability, and toughness of biological nanoparticles from theoretical reconstruction of force-deformation spectra. <i>Acta Biomaterialia</i> , 2021, 122, 263-277.	8.3	5
7	Polymer Coatings on Virus-like Particle Nanoreactors at Low Ionic Strength Charge Reversal and Substrate Access. <i>Biomacromolecules</i> , 2021, 22, 2107-2118.	5.4	14
8	Molecular exclusion limits for diffusion across a porous capsid. <i>Nature Communications</i> , 2021, 12, 2903.	12.8	29
9	Substrate Partitioning into Protein Macromolecular Frameworks for Enhanced Catalytic Turnover. <i>ACS Nano</i> , 2021, 15, 15687-15699.	14.6	19
10	Cytochrome <i>c</i> with peroxidase-like activity encapsulated inside the small DPS protein nanocage. <i>Journal of Materials Chemistry B</i> , 2021, 9, 3168-3179.	5.8	9
11	Controlled Modular Multivalent Presentation of the CD40 Ligand on P22 Virus-like Particles Leads to Tunable Amplification of CD40 Signaling. <i>ACS Applied Bio Materials</i> , 2021, 4, 8205-8214.	4.6	10
12	Tuning the catalytic properties of P22 nanoreactors through compositional control. <i>Nanoscale</i> , 2020, 12, 336-346.	5.6	37
13	Synthetic Virus-like Particles for Glutathione Biosynthesis. <i>ACS Synthetic Biology</i> , 2020, 9, 3298-3310.	3.8	40
14	A Self-Adjuvanted, Modular, Antigenic VLP for Rapid Response to Influenza Virus Variability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18211-18224.	8.0	38
15	Virus-Like Particles (VLPs) as a Platform for Hierarchical Compartmentalization. <i>Biomacromolecules</i> , 2020, 21, 2060-2072.	5.4	26
16	Loading the dice: The orientation of virus-like particles adsorbed on titanate assisted organosilanized surfaces. <i>Biointerphases</i> , 2019, 14, 011001.	1.6	9
17	Virus capsid assembly across different length scales inspire the development of virus-based biomaterials. <i>Current Opinion in Virology</i> , 2019, 36, 38-46.	5.4	25
18	Linker-Mediated Assembly of Virus-Like Particles into Ordered Arrays via Electrostatic Control. <i>ACS Applied Bio Materials</i> , 2019, 2, 2192-2201.	4.6	21

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19	Chemically Induced Morphogenesis of P22 Virus-like Particles by the Surfactant Sodium Dodecyl Sulfate. <i>Biomacromolecules</i> , 2019, 20, 389-400.	5.4	13
20	The archaeal Dps nanocage targets kidney proximal tubules via glomerular filtration. <i>Journal of Clinical Investigation</i> , 2019, 129, 3941-3951.	8.2	29
21	Protein cage assembly across multiple length scales. <i>Chemical Society Reviews</i> , 2018, 47, 3433-3469.	38.1	138
22	Stimuli Responsive Hierarchical Assembly of P22 Virus-like Particles. <i>Chemistry of Materials</i> , 2018, 30, 2262-2273.	6.7	17
23	Changes in the stability and biomechanics of P22 bacteriophage capsid during maturation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1492-1504.	2.4	14
24	Templated Assembly of a Functional Ordered Protein Macromolecular Framework from P22 Virus-like Particles. <i>ACS Nano</i> , 2018, 12, 3541-3550.	14.6	52
25	Modular Self-Assembly of Protein Cage Lattices for Multistep Catalysis. <i>ACS Nano</i> , 2018, 12, 942-953.	14.6	86
26	Cargo Retention inside P22 Virus-Like Particles. <i>Biomacromolecules</i> , 2018, 19, 3738-3746.	5.4	30
27	In Vivo Packaging of Protein Cargo Inside of Virus-Like Particle P22. <i>Methods in Molecular Biology</i> , 2018, 1776, 295-302.	0.9	8
28	Atomic force microscopy of virus shells. <i>Biochemical Society Transactions</i> , 2017, 45, 499-511.	3.4	25
29	Sortase-Mediated Ligation as a Modular Approach for the Covalent Attachment of Proteins to the Exterior of the Bacteriophage P22 Virus-like Particle. <i>Bioconjugate Chemistry</i> , 2017, 28, 2114-2124.	3.6	35
30	Biomedical and Catalytic Opportunities of Virus-Like Particles in Nanotechnology. <i>Advances in Virus Research</i> , 2017, 97, 1-60.	2.1	82
31	Induction of Antiviral Immune Response through Recognition of the Repeating Subunit Pattern of Viral Capsids Is Toll-Like Receptor 2 Dependent. <i>MBio</i> , 2017, 8, .	4.1	31
32	Modular interior loading and exterior decoration of a virus-like particle. <i>Nanoscale</i> , 2017, 9, 10420-10430.	5.6	54
33	RGD targeting of human ferritin iron oxide nanoparticles enhances in vivo MRI of vascular inflammation and angiogenesis in experimental carotid disease and abdominal aortic aneurysm. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 1144-1153.	3.4	40
34	Correlative Lightâ€Electron Microscopy Shows RGDâ€Targeted ZnO Nanoparticles Dissolve in the Intracellular Environment of Triple Negative Breast Cancer Cells and Cause Apoptosis with Intratumor Heterogeneity. <i>Advanced Healthcare Materials</i> , 2016, 5, 1310-1325.	7.6	48
35	Cargoâ€shell and cargoâ€cargo couplings govern the mechanics of artificially loaded virus-derived cages. <i>Nanoscale</i> , 2016, 8, 9328-9336.	5.6	60
36	Co-localization of catalysts within a protein cage leads to efficient photochemical NADH and/or hydrogen production. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5375-5384.	5.8	21

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37	Tuning Viral Capsid Nanoparticle Stability with Symmetrical Morphogenesis. ACS Nano, 2016, 10, 8465-8473.	14.6	34
38	Targeted Cancer Therapy: Correlative Lightâ€Electron Microscopy Shows RGDâ€Targeted ZnO Nanoparticles Dissolve in the Intracellular Environment of Triple Negative Breast Cancer Cells and Cause Apoptosis with Intratumor Heterogeneity (Adv. Healthcare Mater. 11/2016). Advanced Healthcare Materials, 2016, 5, 1248-1248.	7.6	2
39	Virus Matryoshka: A Bacteriophage Particleâ€Guided Molecular Assembly Approach to a Monodisperse Model of the Immature Human Immunodeficiency Virus. Small, 2016, 12, 5862-5872.	10.0	8
40	Viruslike Particles Encapsidating Respiratory Syncytial Virus M and M2 Proteins Induce Robust T Cell Responses. ACS Biomaterials Science and Engineering, 2016, 2, 2324-2332.	5.2	50
41	Two-Dimensional Crystallization of P22 Virus-Like Particles. Journal of Physical Chemistry B, 2016, 120, 5938-5944.	2.6	13
42	Programmed Self-Assembly of an Active P22-Cas9 Nanocarrier System. Molecular Pharmaceutics, 2016, 13, 1191-1196.	4.6	73
43	Self-assembling biomolecular catalysts for hydrogen production. Nature Chemistry, 2016, 8, 179-185.	13.6	170
44	Tailored delivery of analgesic ziconotide across a blood brain barrier model using viral nanocontainers. Scientific Reports, 2015, 5, 12497.	3.3	56
45	Developing a Dissociative Nanocontainer for Peptide Drug Delivery. International Journal of Environmental Research and Public Health, 2015, 12, 12543-12555.	2.6	19
46	Design of a VLP-nanovehicle for CYP450 enzymatic activity delivery. Journal of Nanobiotechnology, 2015, 13, 66.	9.1	67
47	Symmetry Controlled, Genetic Presentation of Bioactive Proteins on the P22 Virus-like Particle Using an External Decoration Protein. ACS Nano, 2015, 9, 9134-9147.	14.6	66
48	Hybrid Nanoreactors: Coupling Enzymes and Smallâ€Molecule Catalysts within Virusâ€Like Particles. Israel Journal of Chemistry, 2015, 55, 96-101.	2.3	19
49	Selective Biotemplated Synthesis of TiO ₂ Inside a Protein Cage. Biomacromolecules, 2015, 16, 214-218.	5.4	26
50	Higher Order Assembly of Virusâ€Like Particles (VLPs) Mediated by Multiâ€valent Protein Linkers. Small, 2015, 11, 1562-1570.	10.0	36
51	Gadolinium-Loaded Viral Capsids as Magnetic Resonance Imaging Contrast Agents. Applied Magnetic Resonance, 2015, 46, 349-355.	1.2	20
52	Development of virusâ€like particles for diagnostic and prophylactic biomedical applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015, 7, 722-735.	6.1	65
53	Interligand Electron Transfer in Heteroleptic Ruthenium(II) Complexes Occurs on Multiple Time Scales. Journal of Physical Chemistry A, 2015, 119, 4813-4824.	2.5	36
54	Use of Protein Cages as a Template for Confined Synthesis of Inorganic and Organic Nanoparticles. Methods in Molecular Biology, 2015, 1252, 17-25.	0.9	13

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55	Manganese(III) porphyrins complexed with P22 virus-like particles as T 1-enhanced contrast agents for magnetic resonance imaging. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 237-246.	2.6	22
56	CD11c + cells primed with unrelated antigens facilitate an accelerated immune response to influenza virus in mice. <i>European Journal of Immunology</i> , 2014, 44, 397-408.	2.9	11
57	Constructing catalytic antimicrobial nanoparticles by encapsulation of hydrogen peroxide producing enzyme inside the P22 VLP. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5948.	5.8	36
58	X-ray spatial frequency heterodyne imaging of protein-based nanobubble contrast agents. <i>Optics Express</i> , 2014, 22, 23290.	3.4	8
59	Encapsulation of an Enzyme Cascade within the Bacteriophage P22 Virus-Like Particle. <i>ACS Chemical Biology</i> , 2014, 9, 359-365.	3.4	213
60	Rescuing recombinant proteins by sequestration into the P22 VLP. <i>Chemical Communications</i> , 2013, 49, 10412-10414.	4.1	41
61	Stabilizing viral nano-reactors for nerve-agent degradation. <i>Biomaterials Science</i> , 2013, 1, 881.	5.4	29
62	Atom transfer radical polymerization on the interior of the P22 capsid and incorporation of photocatalytic monomer crosslinks. <i>European Polymer Journal</i> , 2013, 49, 2976-2985.	5.4	23
63	Biomimetic Antigenic Nanoparticles Elicit Controlled Protective Immune Response to Influenza. <i>ACS Nano</i> , 2013, 7, 3036-3044.	14.6	98
64	Unravelling capsid transformations. <i>Nature Chemistry</i> , 2013, 5, 444-445.	13.6	5
65	P22 Viral Capsids as Nanocomposite High-Relaxivity MRI Contrast Agents. <i>Molecular Pharmaceutics</i> , 2013, 10, 11-17.	4.6	69
66	Location of the Bacteriophage P22 Coat Protein C-Terminus Provides Opportunities for the Design of Capsid-Based Materials. <i>Biomacromolecules</i> , 2013, 14, 2989-2995.	5.4	41
67	Inducible Bronchus-Associated Lymphoid Tissue (iBALT) Synergizes with Local Lymph Nodes during Antiviral CD4 ⁺ T Cell Responses. <i>Lymphatic Research and Biology</i> , 2013, 11, 196-202.	1.1	26
68	Topological Biosignatures: Large-Scale Structure of Chemical Networks from Biology and Astrochemistry. <i>Astrobiology</i> , 2012, 12, 29-39.	3.0	15
69	Characterization of the <i>Bacteroides fragilis</i> bfr Gene Product Identifies a Bacterial DPS-Like Protein and Suggests Evolutionary Links in the Ferritin Superfamily. <i>Journal of Bacteriology</i> , 2012, 194, 15-27.	2.2	20
70	Nanoreactors by Programmed Enzyme Encapsulation Inside the Capsid of the Bacteriophage P22. <i>ACS Nano</i> , 2012, 6, 5000-5009.	14.6	238
71	A virus-like particle vaccine platform elicits heightened and hastened local lung mucosal antibody production after a single dose. <i>Vaccine</i> , 2012, 30, 3653-3665.	3.8	31
72	Use of the interior cavity of the P22 capsid for site-specific initiation of atom-transfer radical polymerization with high-density cargo loading. <i>Nature Chemistry</i> , 2012, 4, 781-788.	13.6	163

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73	Virus-Like Particle-Induced Protection Against MRSA Pneumonia Is Dependent on IL-13 and Enhancement of Phagocyte Function. <i>American Journal of Pathology</i> , 2012, 181, 196-210.	3.8	28
74	Proteomic Analysis of <i>Sulfolobus solfataricus</i> during <i>Sulfolobus</i> Turreted Icosahedral Virus Infection. <i>Journal of Proteome Research</i> , 2012, 11, 1420-1432.	3.7	26
75	Virus-like particle nanoreactors: programmed encapsulation of the thermostable CelB glycosidase inside the P22 capsid. <i>Soft Matter</i> , 2012, 8, 10158.	2.7	100
76	Coconfinement of Fluorescent Proteins: Spatially Enforced Communication of GFP and mCherry Encapsulated within the P22 Capsid. <i>Biomacromolecules</i> , 2012, 13, 3902-3907.	5.4	71
77	Site-Directed Coordination Chemistry with P22 Virus-like Particles. <i>Langmuir</i> , 2012, 28, 1998-2006.	3.5	38
78	RGD-Conjugated Human Ferritin Nanoparticles for Imaging Vascular Inflammation and Angiogenesis in Experimental Carotid and Aortic Disease. <i>Molecular Imaging and Biology</i> , 2012, 14, 315-324.	2.6	64
79	Photo-induced H ₂ production by [NiFe]-hydrogenase from <i>T. roseopersicina</i> covalently linked to a Ru(II) photosensitizer. <i>Journal of Inorganic Biochemistry</i> , 2012, 106, 151-155.	3.5	38
80	Protein Cage Nanoparticles Bearing the LyP-1 Peptide for Enhanced Imaging of Macrophage-Rich Vascular Lesions. <i>ACS Nano</i> , 2011, 5, 2493-2502.	14.6	98
81	Templated assembly of organic-inorganic materials using the core shell structure of the P22 bacteriophage. <i>Chemical Communications</i> , 2011, 47, 6326.	4.1	44
82	Structure and photoelectrochemistry of a virus capsid-TiO ₂ nanocomposite. <i>Nanoscale</i> , 2011, 3, 1004-1007.	5.6	27
83	Monitoring Structural Transitions in Icosahedral Virus Protein Cages by Site-Directed Spin Labeling. <i>Journal of the American Chemical Society</i> , 2011, 133, 4156-4159.	13.7	11
84	All in the Packaging: Structural and Electronic Effects of Nanoconfinement on Metal Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2011, 23, 3921-3929.	6.7	6
85	Biomimetic FePt nanoparticle synthesis within <i>Pyrococcus furiosus</i> ferritins and their layer-by-layer formation. <i>Soft Matter</i> , 2011, 7, 11078.	2.7	24
86	Structure, dynamics, and solvation in a disordered metal-organic coordination polymer: a multiscale study. <i>Journal of Coordination Chemistry</i> , 2011, 64, 4301-4317.	2.2	5
87	Genetically Programmed In Vivo Packaging of Protein Cargo and Its Controlled Release from Bacteriophage P22. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7425-7428.	13.8	147
88	Human ferritin cages for imaging vascular macrophages. <i>Biomaterials</i> , 2011, 32, 1430-1437.	11.4	105
89	A NETWORK-THEORETICAL APPROACH TO UNDERSTANDING INTERSTELLAR CHEMISTRY. <i>Astrophysical Journal</i> , 2010, 722, 1921-1931.	4.5	8
90	Protein cage nanoparticles as secondary building units for the synthesis of 3-dimensional coordination polymers. <i>Soft Matter</i> , 2010, 6, 3167.	2.7	27

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91	Biomimetic synthesis of photoactive Fe_2O_3 templated by the hyperthermophilic ferritin from <i>Pyrococcus furiosus</i> . <i>Journal of Materials Chemistry</i> , 2010, 20, 65-67.	6.7	21
92	Targeted Delivery of a Photosensitizer to <i>Aggregatibacter actinomycetemcomitans</i> Biofilm. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 2489-2496.	3.2	30
93	Some Enzymes Just Need a Space of Their Own. <i>Science</i> , 2010, 327, 42-43.	12.6	31
94	Two-component magnetic structure of iron oxide nanoparticles mineralized in <i>Listeria innocua</i> protein cages. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	13
95	Swelling and Softening of the CCMV Plant Virus Capsid in Response to pH Shifts. <i>Biophysical Journal</i> , 2010, 98, 656a.	0.5	4
96	Hydrogen Enhances Nickel Tolerance in the Purple Sulfur Bacterium <i>Thiocapsa roseopersicina</i> . <i>Environmental Science & Technology</i> , 2010, 44, 834-840.	10.0	9
97	Ion Accumulation in a Protein Nanocage: Finding Noisy Temporal Sequences Using a Genetic Algorithm. <i>Biophysical Journal</i> , 2010, 99, 3385-3393.	0.5	6
98	Size and Crystallinity in Protein-Templated Inorganic Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 4612-4618.	6.7	37
99	Implementation of P22 Viral Capsids as Nanoplatforms. <i>Biomacromolecules</i> , 2010, 11, 2804-2809.	5.4	87
100	The ferritin superfamily: Supramolecular templates for materials synthesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010, 1800, 834-845.	2.4	210
101	A click chemistry based coordination polymer inside small heat shock protein. <i>Chemical Communications</i> , 2010, 46, 264-266.	4.1	40
102	Virus particles as active nanomaterials that can rapidly change their viscoelastic properties in response to dilute solutions. <i>Soft Matter</i> , 2010, 6, 5286.	2.7	12
103	Something Old, Something New, Something Borrowed; How the Thermoacidophilic Archaeon <i>Sulfolobus solfataricus</i> Responds to Oxidative Stress. <i>PLoS ONE</i> , 2009, 4, e6964.	2.5	70
104	Inducible Bronchus-Associated Lymphoid Tissue Elicited by a Protein Cage Nanoparticle Enhances Protection in Mice against Diverse Respiratory Viruses. <i>PLoS ONE</i> , 2009, 4, e7142.	2.5	113
105	Structural and Functional Studies of Archaeal Viruses. <i>Journal of Biological Chemistry</i> , 2009, 284, 12599-12603.	3.4	96
106	Supramolecular Protein Cage Composite MR Contrast Agents with Extremely Efficient Relaxivity Properties. <i>Nano Letters</i> , 2009, 9, 4520-4526.	9.1	59
107	Particle Assembly and Ultrastructural Features Associated with Replication of the Lytic Archaeal Virus <i>Sulfolobus</i> Turreted Icosahedral Virus. <i>Journal of Virology</i> , 2009, 83, 5964-5970.	3.4	96
108	Intracellular Distribution of Macrophage Targeting Ferritin- Fe_3O_4 Iron Oxide Nanocomposite. <i>Advanced Materials</i> , 2009, 21, 458-462.	21.0	48

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109	Correct charge state assignment of native electrospray spectra of protein complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 435-442.	2.8	23
110	Determination of anisotropy constants of protein encapsulated iron oxide nanoparticles by electron magnetic resonance. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 175-180.	2.3	29
111	Janus-like Protein Cages. Spatially Controlled Dual-Functional Surface Modifications of Protein Cages. <i>Nano Letters</i> , 2009, 9, 2360-2366.	9.1	47
112	Synthesis of a Cross-Linked Branched Polymer Network in the Interior of a Protein Cage. <i>Journal of the American Chemical Society</i> , 2009, 131, 4346-4354.	13.7	77
113	Synergistic Effects of Mutations and Nanoparticle Templating in the Self-Assembly of Cowpea Chlorotic Mottle Virus Capsids. <i>Nano Letters</i> , 2009, 9, 393-398.	9.1	57
114	A Streptavidin-Protein Cage Janus Particle for Polarized Targeting and Modular Functionalization. <i>Journal of the American Chemical Society</i> , 2009, 131, 9164-9165.	13.7	63
115	In-Plane Ordering of a Genetically Engineered Viral Protein Cage. <i>Journal of Adhesion</i> , 2009, 85, 69-77.	3.0	4
116	Genetics, biochemistry and structure of the archaeal virus STIV. <i>Biochemical Society Transactions</i> , 2009, 37, 114-117.	3.4	14
117	A human ferritin iron oxide nanocomposite magnetic resonance contrast agent. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1073-1081.	3.0	134
118	Monitoring Biomimetic Platinum Nanocluster Formation Using Mass Spectrometry and Cluster-Dependent H ₂ Production. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7845-7848.	13.8	40
119	Biomimetic synthesis of TiO ₂ inside a viral capsid. <i>Journal of Materials Chemistry</i> , 2008, 18, 3821.	6.7	75
120	Plant Viruses as Biotemplates for Materials and Their Use in Nanotechnology. <i>Annual Review of Phytopathology</i> , 2008, 46, 361-384.	7.8	233
121	Signal amplification using nanoplatform cluster formation. <i>Soft Matter</i> , 2008, 4, 2519.	2.7	10
122	Photochemical Mineralization of Europium, Titanium, and Iron Oxyhydroxide Nanoparticles in the Ferritin Protein Cage. <i>Inorganic Chemistry</i> , 2008, 47, 2237-2239.	4.0	85
123	Expanding the Temperature Range of Biomimetic Synthesis Using a Ferritin from the Hyperthermophile <i>Pyrococcus furiosus</i> . <i>Chemistry of Materials</i> , 2008, 20, 1541-1547.	6.7	32
124	Controlled Assembly of Bifunctional Chimeric Protein Cages and Composition Analysis Using Noncovalent Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2008, 130, 16527-16529.	13.7	69
125	Transcriptome Analysis of Infection of the Archaeon <i>Sulfolobus solfataricus</i> with <i>Sulfolobus</i> Turreted Icosahedral Virus. <i>Journal of Virology</i> , 2008, 82, 4874-4883.	3.4	84
126	Biomimetic Synthesis of an Active H ₂ Catalyst Using the Ferritin Protein Cage Architecture. <i>ACS Symposium Series</i> , 2008, , 263-272.	0.5	1

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127	Virus movement maintains local virus population diversity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19102-19107.	7.1	70
128	Bioprospecting in high temperature environments; application of thermostable protein cages. Soft Matter, 2007, 3, 1091.	2.7	11
129	Synthetic Control over Magnetic Moment and Exchange Bias in All-Oxide Materials Encapsulated within a Spherical Protein Cage. Journal of the American Chemical Society, 2007, 129, 197-201.	13.7	91
130	Biological Containers: Protein Cages as Multifunctional Nanoplatfroms. Advanced Materials, 2007, 19, 1025-1042.	21.0	518
131	Viral capsids as MRI contrast agents. Magnetic Resonance in Medicine, 2007, 58, 871-879.	3.0	120
132	High-Density Targeting of a Viral Multifunctional Nanoplatfrom to a Pathogenic, Biofilm-Forming Bacterium. Chemistry and Biology, 2007, 14, 387-398.	6.0	58
133	Targeting and Photodynamic Killing of a Microbial Pathogen Using Protein Cage Architectures Functionalized with a Photosensitizer. Langmuir, 2007, 23, 12280-12286.	3.5	97
134	Biodistribution studies of protein cage nanoparticles demonstrate broad tissue distribution and rapid clearance in vivo. International Journal of Nanomedicine, 2007, 2, 715-33.	6.7	111
135	Targeting of Cancer Cells with Ferrimagnetic Ferritin Cage Nanoparticles. Journal of the American Chemical Society, 2006, 128, 16626-16633.	13.7	359
136	Assembly of Multilayer Films Incorporating a Viral Protein Cage Architecture. Langmuir, 2006, 22, 8891-8896.	3.5	66
137	Viruses: Making Friends with Old Foes. Science, 2006, 312, 873-875.	12.6	568
138	Structure of the DPS-Like Protein from <i>Sulfolobus solfataricus</i> Reveals a Bacterioferritin-Like Dimetal Binding Site within a DPS-Like Dodecameric Assembly. Biochemistry, 2006, 45, 10815-10827.	2.5	61
139	A radical solution for the biosynthesis of the H-cluster of hydrogenase. FEBS Letters, 2006, 580, 363-367.	2.8	72
140	Hot crenarchaeal viruses reveal deep evolutionary connections. Nature Reviews Microbiology, 2006, 4, 520-528.	28.6	59
141	Melanoma and Lymphocyte Cell-Specific Targeting Incorporated into a Heat Shock Protein Cage Architecture. Chemistry and Biology, 2006, 13, 161-170.	6.0	146
142	Dps-like protein from the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> . Journal of Inorganic Biochemistry, 2006, 100, 1061-1068.	3.5	49
143	Characterization of the Archaeal Thermophile <i>Sulfolobus</i> Turreted Icosahedral Virus Validates an Evolutionary Link among Double-Stranded DNA Viruses from All Domains of Life. Journal of Virology, 2006, 80, 7625-7635.	3.4	86
144	Electron magnetic resonance of iron oxide nanoparticles mineralized in protein cages. Journal of Applied Physics, 2005, 97, 10M523.	2.5	17

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145	Bio-inspired Synthesis of Protein-Encapsulated CoPt Nanoparticles. <i>Advanced Functional Materials</i> , 2005, 15, 1489-1494.	14.9	136
146	Paramagnetic viral nanoparticles as potential high-relaxivity magnetic resonance contrast agents. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 807-812.	3.0	198
147	Structural transitions in Cowpea chlorotic mottle virus (CCMV). <i>Physical Biology</i> , 2005, 2, S166-S172.	1.8	54
148	From The Cover: An archaeal antioxidant: Characterization of a Dps-like protein from <i>Sulfolobus solfataricus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10551-10556.	7.1	114
149	Biomimetic Synthesis of a H ₂ Catalyst Using a Protein Cage Architecture. <i>Nano Letters</i> , 2005, 5, 2306-2309.	9.1	119
150	Influence of Electrostatic Interactions on the Surface Adsorption of a Viral Protein Cage. <i>Langmuir</i> , 2005, 21, 8686-8693.	3.5	47
151	Immobilization of Active Hydrogenases by Encapsulation in Polymeric Porous Gels. <i>Nano Letters</i> , 2005, 5, 2085-2087.	9.1	21
152	Surface contribution to the anisotropy energy of spherical magnetite particles. <i>Journal of Applied Physics</i> , 2005, 97, 10B301.	2.5	44
153	Modeling of the magnetic behavior of Fe_3O_4 nanoparticles mineralized in ferritin. <i>Journal of Applied Physics</i> , 2004, 95, 7127-7129.	2.5	29
154	From The Cover: The structure of a thermophilic archaeal virus shows a double-stranded DNA viral capsid type that spans all domains of life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7716-7720.	7.1	219
155	Comparative Genomic Analysis of Hyperthermophilic Archaeal Fuselloviridae Viruses. <i>Journal of Virology</i> , 2004, 78, 1954-1961.	3.4	131
156	Heterologous expression of the modified coat protein of Cowpea chlorotic mottle bromovirus results in the assembly of protein cages with altered architectures and function. <i>Journal of General Virology</i> , 2004, 85, 1049-1053.	2.9	96
157	Iron and Cobalt Oxide and Metallic Nanoparticles Prepared from Ferritin. <i>Langmuir</i> , 2004, 20, 10283-10287.	3.5	80
158	Charge Development on Ferritin: An Electrokinetic Study of a Protein Containing a Ferrihydrite Nanoparticle. <i>ACS Symposium Series</i> , 2004, , 226-229.	0.5	2
159	Effects of Culturing on the Population Structure of a Hyperthermophilic Virus. <i>Microbial Ecology</i> , 2004, 48, 561-566.	2.8	22
160	Microbe Manufacturers of Semiconductors. <i>Chemistry and Biology</i> , 2004, 11, 1478-1480.	6.0	16
161	Photocatalytic Synthesis of Copper Colloids from Cu(II) by the Ferrihydrite Core of Ferritin. <i>Inorganic Chemistry</i> , 2004, 43, 3441-3446.	4.0	79
162	Preparation of Magnetically Labeled Cells for Cell Tracking by Magnetic Resonance Imaging. <i>Methods in Enzymology</i> , 2004, 386, 275-299.	1.0	164

#	ARTICLE	IF	CITATIONS
163	A Bioengineering Approach to the Production of Metal and Metal Oxide Nanoparticles. ACS Symposium Series, 2004, , 230-237.	0.5	0
164	Metal binding to cowpea chlorotic mottle virus using terbium(III) fluorescence. Journal of Biological Inorganic Chemistry, 2003, 8, 721-725.	2.6	52
165	2-D Array Formation of Genetically Engineered Viral Cages on Au Surfaces and Imaging by Atomic Force Microscopy. Journal of the American Chemical Society, 2003, 125, 10806-10807.	13.7	106
166	The Small Heat Shock Protein Cage from Methanococcus jannaschii Is a Versatile Nanoscale Platform for Genetic and Chemical Modification. Nano Letters, 2003, 3, 1573-1576.	9.1	165
167	Constrained Synthesis of Cobalt Oxide Nanomaterials in the 12-Subunit Protein Cage from Listeria innocua. Inorganic Chemistry, 2003, 42, 6300-6305.	4.0	152
168	MATERIALS SCIENCE: A Bright Bio-Inspired Future. Science, 2003, 299, 1192-1193.	12.6	76
169	Protein Engineering of a Viral Cage for Constrained Nanomaterials Synthesis. Advanced Materials, 2002, 14, 415-418.	21.0	365
170	Protein Cage Constrained Synthesis of Ferrimagnetic Iron Oxide Nanoparticles. Advanced Materials, 2002, 14, 1562-1565.	21.0	184
171	Photochemical Reactivity of Ferritin for Cr(VI) Reduction. Chemistry of Materials, 2002, 14, 4874-4879.	6.7	59
172	Synthesis and Characterization of Soluble Iron Oxide Dendrimers. Chemistry of Materials, 2001, 13, 2201-2209.	6.7	189
173	Ordered association of tobacco mosaic virus in the presence of divalent metal ions. Journal of Inorganic Biochemistry, 2001, 84, 233-240.	3.5	42
174	Magnetodendrimers allow endosomal magnetic labeling and in vivo tracking of stem cells. Nature Biotechnology, 2001, 19, 1141-1147.	17.5	1,016
175	Nanophase Cobalt Oxyhydroxide Mineral Synthesized within the Protein Cage of Ferritin. Inorganic Chemistry, 2000, 39, 1828-1830.	4.0	278
176	Synthesis and characterization of hydrophobic ferritin proteins. Journal of Inorganic Biochemistry, 1999, 76, 187-195.	3.5	52
177	Inorganic-Organic Nanotube Composites from Template Mineralization of Tobacco Mosaic Virus. Advanced Materials, 1999, 11, 253-256.	21.0	698
178	Virus Particles as Templates for Materials Synthesis. Advanced Materials, 1999, 11, 679-681.	21.0	189
179	Inorganic-Organic Nanotube Composites from Template Mineralization of Tobacco Mosaic Virus. , 1999, 11, 253.		3
180	Inorganic-Organic Nanotube Composites from Template Mineralization of Tobacco Mosaic Virus. Advanced Materials, 1999, 11, 253-256.	21.0	6

#	ARTICLE	IF	CITATIONS
181	Host-guest encapsulation of materials by assembled virus protein cages. <i>Nature</i> , 1998, 393, 152-155.	27.8	887
182	Calculated electrostatic gradients in recombinant human α -chain ferritin. <i>Protein Science</i> , 1998, 7, 1083-1091.	7.6	148
183	Biomimetic Synthesis and Characterization of Magnetic Proteins (Magnetoferritin). <i>Chemistry of Materials</i> , 1998, 10, 279-285.	6.7	204
184	Classical and quantum magnetism in synthetic ferritin proteins. <i>Journal of Applied Physics</i> , 1996, 79, 5324.	2.5	41
185	Reconstitution of manganese oxide cores in horse spleen and recombinant ferritins. <i>Journal of Inorganic Biochemistry</i> , 1995, 58, 59-68.	3.5	187
186	Classical and quantum magnetic phenomena in natural and artificial ferritin proteins. <i>Science</i> , 1995, 268, 77-80.	12.6	236
187	Synthesis and Structure of an Iron(III) Sulfide-Ferritin Bioinorganic Nanocomposite. <i>Science</i> , 1995, 269, 54-57.	12.6	293
188	Initial assessment of magnetoferritin biokinetics and proton relaxation enhancement in rats. <i>Academic Radiology</i> , 1995, 2, 871-878.	2.5	35
189	Persistent oral contrast agent lining the intestine in severe mucosal disease: elucidation of radiographic appearance. <i>Radiology</i> , 1994, 191, 747-749.	7.3	8
190	Magnetoferritin: Characterization of a novel superparamagnetic MR contrast agent. <i>Journal of Magnetic Resonance Imaging</i> , 1994, 4, 497-505.	3.4	162
191	Oriented nucleation of gypsum ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) under compressed Langmuir monolayers. <i>Materials Science and Engineering C</i> , 1994, 1, 193-199.	7.3	16
192	Mössbauer spectroscopic and magnetic studies of magnetoferritin. <i>Hyperfine Interactions</i> , 1994, 91, 847-851.	0.5	20
193	Further Characterisation of Forms of Haemosiderin in Iron-Overloaded Tissues. <i>FEBS Journal</i> , 1994, 225, 187-194.	0.2	31
194	Magnetoferritin. <i>Investigative Radiology</i> , 1994, 29, S214-S216.	6.2	40
195	Molecular precursors for indium phosphide and synthesis of small III-V semiconductor clusters in solution. <i>Inorganic Chemistry</i> , 1991, 30, 594-596.	4.0	91
196	A phospholyl complex of indium. <i>Polyhedron</i> , 1990, 9, 329-333.	2.2	14
197	Synthesis and Crystal Structure of a Phospholyl Anion. <i>Angewandte Chemie International Edition in English</i> , 1989, 28, 1367-1368.	4.4	85