

# Patrick G Hartley

## List of Publications by Year in descending order

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91  
papers

4,001  
citations

87723

38  
h-index

128067

60  
g-index

92  
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92  
docs citations

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times ranked

5053  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrokinetic and Direct Force Measurements between Silica and Mica Surfaces in Dilute Electrolyte Solutions. <i>Langmuir</i> , 1997, 13, 2207-2214.	1.6	253
2	Self-assembly of ciprofloxacin and a tripeptide into an antimicrobial nanostructured hydrogel. <i>Biomaterials</i> , 2013, 34, 3678-3687.	5.7	162
3	Chirality effects at each amino acid position on tripeptide self-assembly into hydrogel biomaterials. <i>Nanoscale</i> , 2014, 6, 5172-5180.	2.8	125
4	Tripeptide self-assembled hydrogels: unexpected twists of chirality. <i>Chemical Communications</i> , 2012, 48, 2195-2197.	2.2	121
5	Progress in microemulsion characterization. <i>Current Opinion in Colloid and Interface Science</i> , 2012, 17, 274-280.	3.4	121
6	Comparative Study of the Magnetic Behavior of Spherical and Cubic Superparamagnetic Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 327-334.	1.5	119
7	Surface Forces and Deformation at the Oil/Water Interface Probed Using AFM Force Measurement. <i>Langmuir</i> , 1999, 15, 7282-7289.	1.6	109
8	Unzipping the role of chirality in nanoscale self-assembly of tripeptide hydrogels. <i>Nanoscale</i> , 2012, 4, 6752.	2.8	108
9	Lactose Surface Modification by Decantation: Are Drug-Fine Lactose Ratios the Key to Better Dispersion of Salmeterol Xinafoate from Lactose-Interactive Mixtures?. <i>Pharmaceutical Research</i> , 2004, 21, 492-499.	1.7	100
10	Engineered Lysozyme Amyloid Fibril Networks Support Cellular Growth and Spreading. <i>Biomacromolecules</i> , 2014, 15, 599-608.	2.6	97
11	Quantitative kinetic inhibitor comparisons and memory effect measurements from hydrate formation probability distributions. <i>Chemical Engineering Science</i> , 2014, 107, 1-12.	1.9	87
12	The in vivo performance of an enzyme-assisted self-assembled peptide/protein hydrogel. <i>Biomaterials</i> , 2011, 32, 5304-5310.	5.7	76
13	Micromechanical characterization of shales through nanoindentation and energy dispersive x-ray spectrometry. <i>Geomechanics for Energy and the Environment</i> , 2017, 9, 21-35.	1.2	74
14	Two-dimensional patterning of thin coatings for the control of tissue outgrowth. <i>Biomaterials</i> , 2006, 27, 35-43.	5.7	69
15	The influence of dipalmitoyl phosphatidylserine on phase behaviour of and cellular response to lyotropic liquid crystalline dispersions. <i>Biomaterials</i> , 2010, 31, 9473-9481.	5.7	68
16	Effect of carrier size on the dispersion of salmeterol xinafoate from interactive mixtures. <i>Journal of Pharmaceutical Sciences</i> , 2004, 93, 1030-1038.	1.6	67
17	Salt Induced Lamellar to Bicontinuous Cubic Phase Transitions in Cationic Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3551-3556.	1.2	67
18	Glycerol Monooleate-Based Nanocarriers for siRNA Delivery in Vitro. <i>Molecular Pharmaceutics</i> , 2012, 9, 2450-2457.	2.3	61

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19	New Role for Urea as a Surfactant Headgroup Promoting Self-Assembly in Water. <i>Chemistry of Materials</i> , 2006, 18, 594-597.	3.2	57
20	Nanotopographic Surfaces with Defined Surface Chemistries from Amyloid Fibril Networks Can Control Cell Attachment. <i>Biomacromolecules</i> , 2013, 14, 2305-2316.	2.6	56
21	Surface roughness contribution to the adhesion force distribution of salmeterol xinafoate on lactose carriers by atomic force microscopy. <i>Journal of Pharmaceutical Sciences</i> , 2005, 94, 1500-1511.	1.6	54
22	Atomic Force Microscopy Investigation of the Morphology and Topography of Colistin-Heteroresistant <i>Acinetobacter baumannii</i> Strains as a Function of Growth Phase and in Response to Colistin Treatment. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 4979-4986.	1.4	54
23	Co <sub>3</sub> O <sub>4</sub> needles on Au honeycomb as a non-invasive electrochemical biosensor for glucose in saliva. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111479.	5.3	54
24	Development of a high pressure automated lag time apparatus for experimental studies and statistical analyses of nucleation and growth of gas hydrates. <i>Review of Scientific Instruments</i> , 2011, 82, 065109.	0.6	53
25	Regenerable $\gamma$ -MnO <sub>2</sub> nanotubes for elemental mercury removal from natural gas. <i>Fuel Processing Technology</i> , 2019, 193, 317-327.	3.7	53
26	A Surface Masking Technique for the Determination of Plasma Polymer Film Thickness by AFM. <i>Plasmas and Polymers</i> , 2000, 5, 47-60.	1.5	52
27	Characterization of Low-Fouling Ethylene Glycol Containing Plasma Polymer Films. <i>Langmuir</i> , 2008, 24, 3828-3835.	1.6	52
28	Forces between a Rigid Probe Particle and a Liquid Interface: A Comparison between Experiment and Theory. <i>Langmuir</i> , 2003, 19, 2124-2133.	1.6	51
29	Scanning Probe Nanolithography and Protein Patterning of Low-Fouling Plasma Polymer Multilayer Films. <i>Advanced Materials</i> , 2006, 18, 3079-3082.	11.1	50
30	Mercury in natural gas streams: A review of materials and processes for abatement and remediation. <i>Journal of Hazardous Materials</i> , 2020, 382, 121036.	6.5	49
31	The influence of the modification of etched bovine dentin on bond strengths. <i>Dental Materials</i> , 2000, 16, 255-265.	1.6	47
32	Statistical Analysis of Supercooling in Fuel Gas Hydrate Systems. <i>Energy &amp; Fuels</i> , 2012, 26, 1820-1827.	2.5	46
33	Reversible Photorheological Lyotropic Liquid Crystals. <i>Langmuir</i> , 2014, 30, 866-872.	1.6	46
34	Formation of Ice, Tetrahydrofuran Hydrate, and Methane/Propane Mixed Gas Hydrates in Strong Monovalent Salt Solutions. <i>Energy &amp; Fuels</i> , 2014, 28, 6877-6888.	2.5	46
35	Synthesis of Effective Kinetic Inhibitors for Natural Gas Hydrates. <i>Energy &amp; Fuels</i> , 2012, 26, 1037-1043.	2.5	45
36	Probability distributions of gas hydrate formation. <i>AIChE Journal</i> , 2013, 59, 2640-2646.	1.8	43

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37	Physicochemical Properties of Polysaccharide Coatings Based on Grafted Multilayer Assemblies. <i>Langmuir</i> , 2002, 18, 2483-2494.	1.6	40
38	Synthesis and Mesophases of Glycerate Surfactants. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1384-1392.	1.2	39
39	Electrostatic Properties of Polyelectrolyte Modified Surfaces Studied by Direct Force Measurement. <i>Langmuir</i> , 1998, 14, 6948-6955.	1.6	37
40	Interaction Forces and Zeta Potentials of Cationic Polyelectrolyte Coated Silica Surfaces in Water and in Ethanol: Effects of Chain Length and Concentration of Perfluorinated Anionic Surfactants on Their Binding to the Surface. <i>Langmuir</i> , 2001, 17, 6220-6227.	1.6	37
41	Interfacial properties and protein resistance of nano-scale polysaccharide coatings. <i>Smart Materials and Structures</i> , 2002, 11, 652-661.	1.8	37
42	Investigation of adsorbed humic substances using atomic force microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 248, 17-23.	2.3	37
43	Submicron Dispersions of Hexosomes Based on Novel Glycerate Surfactants. <i>Australian Journal of Chemistry</i> , 2005, 58, 683.	0.5	37
44	Azobenzene moiety variation directing self-assembly and photoresponsive behavior of azo-surfactants. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8303-8312.	2.7	37
45	The interaction of cubosomes with supported phospholipid bilayers using neutron reflectometry and QCM-D. <i>Soft Matter</i> , 2011, 7, 8041.	1.2	35
46	Surface Immobilization of Bio-Functionalized Cubosomes: Sensing of Proteins by Quartz Crystal Microbalance. <i>Langmuir</i> , 2012, 28, 620-627.	1.6	35
47	X-Ray and Neutron Reflectometry Study of Glow-Discharge Plasma Polymer Films. <i>Langmuir</i> , 2006, 22, 453-458.	1.6	34
48	Size and Phase Control of Cubic Lyotropic Liquid Crystal Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7430-7439.	1.2	34
49	Methane-Propane Mixed Gas Hydrate Film Growth on the Surface of Water and Luvicap EG Solutions. <i>Energy &amp; Fuels</i> , 2013, 27, 2548-2554.	2.5	33
50	Mercury-bearing wastes: Sources, policies and treatment technologies for mercury recovery and safe disposal. <i>Journal of Environmental Management</i> , 2020, 270, 110945.	3.8	33
51	<i>In Situ</i> Synchrotron SAXS Study of Polymerizable Microemulsions. <i>Macromolecules</i> , 2011, 44, 3007-3015.	2.2	31
52	Biomimetic Topography and Chemistry Control Cell Attachment to Amyloid Fibrils. <i>Biomacromolecules</i> , 2015, 16, 1556-1565.	2.6	31
53	Targeted detection of phosphatidylserine in biomimetic membranes and <i>in vitro</i> cell systems using annexin V-containing cubosomes. <i>Biomaterials</i> , 2013, 34, 8361-8369.	5.7	30
54	Direct visualisation of lipid bilayer cubic phases using Atomic Force Microscopy. <i>Soft Matter</i> , 2010, 6, 4058.	1.2	27

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55	Combinatorial Discovery of Novel Amphiphilic Polymers for the Phase Transfer of Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16615-16624.	1.5	25
56	Formation of Liquid-Crystalline Structures in the Bile Salt-Chitosan System and Triggered Release from Lamellar Phase Bile Salt-Chitosan Capsules. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12363-12371.	4.0	25
57	Biofunctionalized Surfactant Mesophases as Polyvalent Inhibitors of Cholera Toxin. <i>Bioconjugate Chemistry</i> , 2007, 18, 1442-1449.	1.8	24
58	Controlling morphology and porosity of porous siloxane membranes through water content of precursor microemulsion. <i>Soft Matter</i> , 2012, 8, 10493.	1.2	24
59	Development of Cubosomes as a Cell-Free Biosensing Platform. <i>Australian Journal of Chemistry</i> , 2011, 64, 46.	0.5	23
60	Cubic mesophase nanoparticles doped with superparamagnetic iron oxide nanoparticles: a new class of MRI contrast agent. <i>RSC Advances</i> , 2012, 2, 6655.	1.7	22
61	A Simple and Effective Approach to Vesicles and Large Compound Vesicles via Complexation of Amphiphilic Block Copolymer With Polyelectrolyte in Water. <i>Macromolecular Rapid Communications</i> , 2012, 33, 401-406.	2.0	22
62	Tripeptide Self-Assembled Hydrogels: Soft Nanomaterials for Biological Applications. <i>BioNanoScience</i> , 2013, 3, 21-29.	1.5	22
63	Effect of Kinetic Hydrate Inhibitor Polyvinylcaprolactam on Cyclopentane Hydrate Cohesion Forces and Growth. <i>Energy &amp; Fuels</i> , 2014, 28, 3632-3637.	2.5	22
64	Fabrication and Characterization of Spherical Zirconia Particles for Direct Force Measurement Using the Atomic Force Microscope. <i>Langmuir</i> , 1999, 15, 6220-6225.	1.6	21
65	Characterization of sequentially grafted polysaccharide coatings using time-of-flight secondary ion mass spectrometry (ToF-SIMS) and principal component analysis (PCA). <i>Surface and Interface Analysis</i> , 2002, 33, 924-931.	0.8	21
66	A Simple Microfluidic Chip Design for Fundamental Bioseparation. <i>Journal of Analytical Methods in Chemistry</i> , 2014, 2014, 1-6.	0.7	21
67	Monovalent and polyvalent carbohydrate inhibitors of ricin binding to a model of the cell-surface receptor. <i>Journal of Applied Toxicology</i> , 2006, 26, 247-252.	1.4	20
68	Diversifying the Solid State and Lyotropic Phase Behavior of Nonionic Urea-Based Surfactants. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10713-10722.	1.2	20
69	Determination of the Surface Potential of Two-Dimensional Crystals of Bacteriorhodopsin by AFM. <i>Langmuir</i> , 1998, 14, 5203-5209.	1.6	19
70	Physicochemical and cytotoxicity analysis of glycerol monoolein-based nanoparticles. <i>RSC Advances</i> , 2015, 5, 26543-26549.	1.7	19
71	Controlling the Mesostructure Formation within the Shell of Novel Cubic/Hexagonal Phase Cetyltrimethylammonium Bromide-Poly(acrylamide-acrylic acid) Capsules for pH Stimulated Release. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24501-24509.	4.0	18
72	A Comparative X-Ray and Neutron Reflectometry Study of Plasma Polymer Films Containing Reactive Amines. <i>Plasma Processes and Polymers</i> , 2007, 4, 433-444.	1.6	17

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73	Influence of Dissolved Atmospheric Gases on the Spontaneous Emulsification of Alkane-Ethanol-Water Systems. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8768-8774.	1.5	16
74	CeO <sub>2</sub> -Decorated $\pm$ -MnO <sub>2</sub> Nanotubes: A Highly Efficient and Regenerable Sorbent for Elemental Mercury Removal from Natural Gas. <i>Langmuir</i> , 2019, 35, 8246-8256.	1.6	16
75	Adsorption of quarternarised polyvinylpyridine and subsequent counterion binding of perfluorinated anionic surfactants on silica as a function of concentration and pH: a zeta potential study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 193, 175-185.	2.3	15
76	A Parametric Study of a Monolithic Microfluidic System for On-Chip Biomolecular Separation. <i>Separation Science and Technology</i> , 2014, 49, 854-860.	1.3	15
77	Interactions between biosurfaces. <i>Advances in Colloid and Interface Science</i> , 1994, 49, 341-386.	7.0	14
78	Monitoring the Early Stage Self-Assembly of Enzyme-Assisted Peptide Hydrogels. <i>Australian Journal of Chemistry</i> , 2013, 66, 572.	0.5	14
79	Adsorption of Ionic Surfactants to a Plasma Polymer Substrate. <i>Langmuir</i> , 2003, 19, 4222-4227.	1.6	13
80	Ricin Antitoxins Based on Lyotropic Mesophases Containing Galactose Amphiphiles. <i>Bioconjugate Chemistry</i> , 2007, 18, 152-159.	1.8	12
81	Preparation and biological evaluation of self-assembled cubic phases for the polyvalent inhibition of cholera toxin. <i>Soft Matter</i> , 2011, 7, 6125.	1.2	12
82	SU-8 photolithography on reactive plasma thin-films: coated microwells for peptide display. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 108, 313-321.	2.5	12
83	Enhancing thermal stability and mechanical properties of lyotropic liquid crystals through incorporation of a polymerizable surfactant. <i>Soft Matter</i> , 2015, 11, 6318-6326.	1.2	11
84	Nucleation Probability Distributions of Methane-Propane Mixed Gas Hydrates in Salt Solutions and Urea. <i>Energy &amp; Fuels</i> , 2015, 29, 6259-6270.	2.5	11
85	Nanofibrillar Micelles and Entrapped Vesicles from Biodegradable Block Copolymer/Polyelectrolyte Complexes in Aqueous Media. <i>Langmuir</i> , 2013, 29, 9240-9248.	1.6	10
86	Non-specific interactions between heparin and poly-l-lysine surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1993, 77, 191-198.	2.3	9
87	Study of electrical conductivity response upon formation of ice and gas hydrates from salt solutions by a second generation high pressure electrical conductivity probe. <i>Review of Scientific Instruments</i> , 2014, 85, 115101.	0.6	8
88	Application of evanescent wave optics to the determination of absolute distance in surface force measurements using the atomic force microscope. <i>Ultramicroscopy</i> , 2003, 94, 283-291.	0.8	7
89	<title>Excimer laser ablation of plasma polymers for cell and tissue culture applications</title>. , 2001, , .		4
90	<title>Fabrication and characterization of nanoscale biological coatings on synthetic carriers</title>. , 2001, , .		0

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91	Australian Colloid and Interface Symposium 2005 Special Issue. Australian Journal of Chemistry, 2005, 58, 625.	0.5	0