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 all docs	92 docs citations	92 times ranked	5053 citing authors

#	Article	IF	Citations
1	Mercury in natural gas streams: A review of materials and processes for abatement and remediation. Journal of Hazardous Materials, 2020, 382, 121036.	6.5	49
2	Mercury-bearing wastes: Sources, policies and treatment technologies for mercury recovery and safe disposal. Journal of Environmental Management, 2020, 270, 110945.	3.8	33
3	Regenerable Î±-MnO2 nanotubes for elemental mercury removal from natural gas. Fuel Processing Technology, 2019, 193, 317-327.	3.7	53
4	Co3O4 needles on Au honeycomb as a non-invasive electrochemical biosensor for glucose in saliva. Biosensors and Bioelectronics, 2019, 141, 111479.	5.3	54
5	CeO2-Decorated Î±-MnO2 Nanotubes: A Highly Efficient and Regenerable Sorbent for Elemental Mercury Removal from Natural Gas. Langmuir, 2019, 35, 8246-8256.	1.6	16
6	Micromechanical characterization of shales through nanoindentation and energy dispersive x-ray spectrometry. Geomechanics for Energy and the Environment, 2017, 9, 21-35.	1.2	74
7	Physicochemical and cytotoxicity analysis of glycerol monoolein-based nanoparticles. RSC Advances, 2015, 5, 26543-26549.	1.7	19
8	Enhancing thermal stability and mechanical properties of lyotropic liquid crystals through incorporation of a polymerizable surfactant. Soft Matter, 2015, 11, 6318-6326.	1.2	11
9	Biomimetic Topography and Chemistry Control Cell Attachment to Amyloid Fibrils. Biomacromolecules, 2015, 16, 1556-1565.	2.6	31
10	Nucleation Probability Distributions of Methaneâ€“Propane Mixed Gas Hydrates in Salt Solutions and Urea. Energy & Fuels, 2015, 29, 6259-6270.	2.5	11
11	Controlling the Mesostructure Formation within the Shell of Novel Cubic/Hexagonal Phase Cetyltrimethylammonium Bromideâ€“Poly(acrylamide-acrylic acid) Capsules for pH Stimulated Release. ACS Applied Materials & Interfaces, 2015, 7, 24501-24509.	4.0	18
12	A Simple Microfluidic Chip Design for Fundamental Bioseparation. Journal of Analytical Methods in Chemistry, 2014, 2014, 1-6.	0.7	21
13	A Parametric Study of a Monolithic Microfluidic System for On-Chip Biomolecular Separation. Separation Science and Technology, 2014, 49, 854-860.	1.3	15
14	Reversible Photorheological Lyotropic Liquid Crystals. Langmuir, 2014, 30, 866-872.	1.6	46
15	Chirality effects at each amino acid position on tripeptide self-assembly into hydrogel biomaterials. Nanoscale, 2014, 6, 5172-5180.	2.8	125
16	Quantitative kinetic inhibitor comparisons and memory effect measurements from hydrate formation probability distributions. Chemical Engineering Science, 2014, 107, 1-12.	1.9	87
17	Study of electrical conductivity response upon formation of ice and gas hydrates from salt solutions by a second generation high pressure electrical conductivity probe. Review of Scientific Instruments, 2014, 85, 115101.	0.6	8
18	Formation of Ice, Tetrahydrofuran Hydrate, and Methane/Propane Mixed Gas Hydrates in Strong Monovalent Salt Solutions. Energy & Fuels, 2014, 28, 6877-6888.	2.5	46

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19	Azobenzene moiety variation directing self-assembly and photoresponsive behavior of azo-surfactants. Journal of Materials Chemistry C, 2014, 2, 8303-8312.	2.7	37
20	Formation of Liquid-Crystalline Structures in the Bile Saltâ€“Chitosan System and Triggered Release from Lamellar Phase Bile Saltâ€“Chitosan Capsules. ACS Applied Materials & Interfaces, 2014, 6, 12363-12371.	4.0	25
21	Engineered Lysozyme Amyloid Fibril Networks Support Cellular Growth and Spreading. Biomacromolecules, 2014, 15, 599-608.	2.6	97
22	Effect of Kinetic Hydrate Inhibitor Polyvinylcaprolactam on Cyclopentane Hydrate Cohesion Forces and Growth. Energy & Fuels, 2014, 28, 3632-3637.	2.5	22
23	Size and Phase Control of Cubic Lyotropic Liquid Crystal Nanoparticles. Journal of Physical Chemistry B, 2014, 118, 7430-7439.	1.2	34
24	Targeted detection of phosphatidylserine in biomimetic membranes and inÂvitro cell systems using annexin V-containing cubosomes. Biomaterials, 2013, 34, 8361-8369.	5.7	30
25	Tripeptide Self-Assembled Hydrogels: Soft Nanomaterials for Biological Applications. BioNanoScience, 2013, 3, 21-29.	1.5	22
26	Probability distributions of gas hydrate formation. AICHE Journal, 2013, 59, 2640-2646.	1.8	43
27	Methaneâ€“Propane Mixed Gas Hydrate Film Growth on the Surface of Water and Luvicap EG Solutions. Energy & Fuels, 2013, 27, 2548-2554.	2.5	33
28	Nanotopographic Surfaces with Defined Surface Chemistries from Amyloid Fibril Networks Can Control Cell Attachment. Biomacromolecules, 2013, 14, 2305-2316.	2.6	56
29	Monitoring the Early Stage Self-Assembly of Enzyme-Assisted Peptide Hydrogels. Australian Journal of Chemistry, 2013, 66, 572.	0.5	14
30	Self-assembly of ciprofloxacin and a tripeptide into an antimicrobial nanostructured hydrogel. Biomaterials, 2013, 34, 3678-3687.	5.7	162
31	SU-8 photolithography on reactive plasma thin-films: coated microwells for peptide display. Colloids and Surfaces B: Biointerfaces, 2013, 108, 313-321.	2.5	12
32	Nanofibrillar Micelles and Entrapped Vesicles from Biodegradable Block Copolymer/Polyelectrolyte Complexes in Aqueous Media. Langmuir, 2013, 29, 9240-9248.	1.6	10
33	Unzipping the role of chirality in nanoscale self-assembly of tripeptide hydrogels. Nanoscale, 2012, 4, 6752.	2.8	108
34	Surface Immobilization of Bio-Functionalized Cubosomes: Sensing of Proteins by Quartz Crystal Microbalance. Langmuir, 2012, 28, 620-627.	1.6	35
35	Salt Induced Lamellar to Bicontinuous Cubic Phase Transitions in Cationic Nanoparticles. Journal of Physical Chemistry B, 2012, 116, 3551-3556.	1.2	67
36	Cubic mesophase nanoparticles doped with superparamagnetic iron oxide nanoparticles: a new class of MRI contrast agent. RSC Advances, 2012, 2, 6655.	1.7	22

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37	Tripeptide self-assembled hydrogels: unexpected twists of chirality. Chemical Communications, 2012, 48, 2195-2197.	2.2	121
38	Controlling morphology and porosity of porous siloxane membranes through water content of precursor microemulsion. Soft Matter, 2012, 8, 10493.	1.2	24
39	Glycerol Monooleate-Based Nanocarriers for siRNA Delivery in Vitro. Molecular Pharmaceutics, 2012, 9, 2450-2457.	2.3	61
40	Progress in microemulsion characterization. Current Opinion in Colloid and Interface Science, 2012, 17, 274-280.	3.4	121
41	Statistical Analysis of Supercooling in Fuel Gas Hydrate Systems. Energy & Fuels, 2012, 26, 1820-1827.	2.5	46
42	Synthesis of Effective Kinetic Inhibitors for Natural Gas Hydrates. Energy & Fuels, 2012, 26, 1037-1043.	2.5	45
43	A Simple and Effective Approach to Vesicles and Large Compound Vesicles via Complexation of Amphiphilic Block Copolymer With Polyelectrolyte in Water. Macromolecular Rapid Communications, 2012, 33, 401-406.	2.0	22
44	Influence of Dissolved Atmospheric Gases on the Spontaneous Emulsification of Alkaneâ^'Ethanolâ^'Water Systems. Journal of Physical Chemistry C, 2011, 115, 8768-8774.	1.5	16
45	In Situ Synchrotron SAXS Study of Polymerizable Microemulsions. Macromolecules, 2011, 44, 3007-3015.	2.2	31
46	Development of Cubosomes as a Cell-Free Biosensing Platform. Australian Journal of Chemistry, 2011, 64, 46.	0.5	23
47	The interaction of cubosomes with supported phospholipid bilayers using neutron reflectometry and QCM-D. Soft Matter, 2011, 7, 8041.	1.2	35
48	Preparation and biological evaluation of self-assembled cubic phases for the polyvalent inhibition of cholera toxin. Soft Matter, 2011, 7, 6125.	1.2	12
49	Comparative Study of the Magnetic Behavior of Spherical and Cubic Superparamagnetic Iron Oxide Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 327-334.	1.5	119
50	The in vivo performance of an enzyme-assisted self-assembled peptide/protein hydrogel. Biomaterials, 2011, 32, 5304-5310.	5.7	76
51	Development of a high pressure automated lag time apparatus for experimental studies and statistical analyses of nucleation and growth of gas hydrates. Review of Scientific Instruments, 2011, 82, 065109.	0.6	53
52	The influence of dipalmitoyl phosphatidylserine on phase behaviour of and cellular response to lyotropic liquid crystalline dispersions. Biomaterials, 2010, 31, 9473-9481.	5.7	68
53	Direct visualisation of lipid bilayer cubic phases using Atomic Force Microscopy. Soft Matter, 2010, 6, 4058.	1.2	27
54	Atomic Force Microscopy Investigation of the Morphology and Topography of Colistin-Heteroresistant Acinetobacter baumannii Strains as a Function of Growth Phase and in Response to Colistin Treatment. Antimicrobial Agents and Chemotherapy, 2009, 53, 4979-4986.	1.4	54

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55	Combinatorial Discovery of Novel Amphiphilic Polymers for the Phase Transfer of Magnetic Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 16615-16624.	1.5	25
56	Characterization of Low-Fouling Ethylene Glycol Containing Plasma Polymer Films. Langmuir, 2008, 24, 3828-3835.	1.6	52
57	Biofunctionalized Surfactant Mesophases as Polyvalent Inhibitors of Cholera Toxin. Bioconjugate Chemistry, 2007, 18, 1442-1449.	1.8	24
58	Synthesis and Mesophases of Glycerate Surfactants. Journal of Physical Chemistry B, 2007, 111, 1384-1392.	1.2	39
59	Ricin Antitoxins Based on Lyotropic Mesophases Containing Galactose Amphiphiles. Bioconjugate Chemistry, 2007, 18, 152-159.	1.8	12
60	Diversifying the Solid State and Lyotropic Phase Behavior of Nonionic Urea-Based Surfactants. Journal of Physical Chemistry B, 2007, 111, 10713-10722.	1.2	20
61	A Comparative X-Ray and Neutron Reflectometry Study of Plasma Polymer Films Containing Reactive Amines. Plasma Processes and Polymers, 2007, 4, 433-444.	1.6	17
62	New Role for Urea as a Surfactant Headgroup Promoting Self-Assembly in Water. Chemistry of Materials, 2006, 18, 594-597.	3.2	57
63	X-Ray and Neutron Reflectometry Study of Glow-Discharge Plasma Polymer Films. Langmuir, 2006, 22, 453-458.	1.6	34
64	Two-dimensional patterning of thin coatings for the control of tissue outgrowth. Biomaterials, 2006, 27, 35-43.	5.7	69
65	Monovalent and polyvalent carbohydrate inhibitors of ricin binding to a model of the cell-surface receptor. Journal of Applied Toxicology, 2006, 26, 247-252.	1.4	20
66	Scanning Probe Nanolithography and Protein Patterning of Low-Fouling Plasma Polymer Multilayer Films. Advanced Materials, 2006, 18, 3079-3082.	11.1	50
67	Surface roughness contribution to the adhesion force distribution of salmeterol xinafoate on lactose carriers by atomic force microscopy. Journal of Pharmaceutical Sciences, 2005, 94, 1500-1511.	1.6	54
68	Submicron Dispersions of Hexosomes Based on Novel Glycerate Surfactants. Australian Journal of Chemistry, 2005, 58, 683.	0.5	37
69	Australian Colloid and Interface Symposium 2005 Special Issue. Australian Journal of Chemistry, 2005, 58, 625.	0.5	0
70	Lactose Surface Modification by Decantation: Are Drug-Fine Lactose Ratios the Key to Better Dispersion of Salmeterol Xinafoate from Lactose-Interactive Mixtures?. Pharmaceutical Research, 2004, 21, 492-499.	1.7	100
71	Effect of carrier size on the dispersion of salmeterol xinafoate from interactive mixtures. Journal of Pharmaceutical Sciences, 2004, 93, 1030-1038.	1.6	67
72	Investigation of adsorbed humic substances using atomic force microscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 248, 17-23.	2.3	37

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73	Application of evanescent wave optics to the determination of absolute distance in surface force measurements using the atomic force microscope. Ultramicroscopy, 2003, 94, 283-291.	0.8	7
74	Forces between a Rigid Probe Particle and a Liquid Interface:Â Comparison between Experiment and Theory. Langmuir, 2003, 19, 2124-2133.	1.6	51
75	Adsorption of Ionic Surfactants to a Plasma Polymer Substrate. Langmuir, 2003, 19, 4222-4227.	1.6	13
76	Interfacial properties and protein resistance of nano-scale polysaccharide coatings. Smart Materials and Structures, 2002, 11, 652-661.	1.8	37
77	Physicochemical Properties of Polysaccharide Coatings Based on Grafted Multilayer Assemblies. Langmuir, 2002, 18, 2483-2494.	1.6	40
78	Characterization of sequentially grafted polysaccharide coatings using time-of-flight secondary ion mass spectrometry (ToF-SIMS) and principal component analysis (PCA). Surface and Interface Analysis, 2002, 33, 924-931.	0.8	21
79	Interaction Forces and Zeta Potentials of Cationic Polyelectrolyte Coated Silica Surfaces in Water and in Ethanol:Â Effects of Chain Length and Concentration of Perfluorinated Anionic Surfactants on Their Binding to the Surface. Langmuir, 2001, 17, 6220-6227.	1.6	37
80	<title>Excimer laser ablation of plasma polymers for cell and tissue culture applications</title>. , 2001, , .		4
81	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. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 193, 175-185.	2.3	15
82	<title>Fabrication and characterization of nanoscale biological coatings on synthetic carriers</title>. , 2001, , .		0
83	The influence of the modification of etched bovine dentin on bond strengths. Dental Materials, 2000, 16, 255-265.	1.6	47
84	A Surface Masking Technique for the Determination of Plasma Polymer Film Thickness by AFM. Plasmas and Polymers, 2000, 5, 47-60.	1.5	52
85	Surface Forces and Deformation at the Oilâ^'Water Interface Probed Using AFM Force Measurement. Langmuir, 1999, 15, 7282-7289.	1.6	109
86	Fabrication and Characterization of Spherical Zirconia Particles for Direct Force Measurement Using the Atomic Force Microscope. Langmuir, 1999, 15, 6220-6225.	1.6	21
87	Determination of the Surface Potential of Two-Dimensional Crystals of Bacteriorhodopsin by AFM. Langmuir, 1998, 14, 5203-5209.	1.6	19
88	Electrostatic Properties of Polyelectrolyte Modified Surfaces Studied by Direct Force Measurement. Langmuir, 1998, 14, 6948-6955.	1.6	37
89	Electrokinetic and Direct Force Measurements between Silica and Mica Surfaces in Dilute Electrolyte Solutions. Langmuir, 1997, 13, 2207-2214.	1.6	253
90	Interactions between biosurfaces. Advances in Colloid and Interface Science, 1994, 49, 341-386.	7.0	14

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91	Non-specific interactions between heparin and poly-l-lysine surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 77, 191-198.	2.3	9