

James L Harden

List of Publications by Year in descending order

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42
papers

2,732
citations

257450

24
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276875

41
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43
all docs

43
docs citations

43
times ranked

3290
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Collagen-like Protein for Facile Biomaterial Fabrication. ACS Biomaterials Science and Engineering, 2021, 7, 1414-1427.	5.2	15
2	Time dependent stress relaxation and recovery in mechanically strained 3D microtissues. APL Bioengineering, 2020, 4, 036107.	6.2	10
3	Microscopic ergodicity breaking governs the emergence and evolution of elasticity in glass-forming nanoclay suspensions. Physical Review E, 2020, 102, 042619.	2.1	6
4	Microscopic dynamics of stress relaxation in a nanocolloidal soft glass. Physical Review Materials, 2020, 4, .	2.4	12
5	Relationship between rheology and structure of interpenetrating, deforming and compressing microgels. Nature Communications, 2019, 10, 2436.	12.8	73
6	Interaction-free ghost-imaging of structured objects. Optics Express, 2019, 27, 2212.	3.4	34
7	Enhanced gel formation in binary mixtures of nanocolloids with short-range attraction. Journal of Chemical Physics, 2018, 148, 044902.	3.0	15
8	Microscopic signatures of yielding in concentrated nanoemulsions under large-amplitude oscillatory shear. Physical Review Materials, 2018, 2, .	2.4	19
9	Measuring mechanodynamics in an unsupported epithelial monolayer grown at an air-water interface. Molecular Biology of the Cell, 2017, 28, 111-119.	2.1	3
10	Editorial: Special Issue on Designer Protein Biomaterials. ACS Biomaterials Science and Engineering, 2017, 3, 658-660.	5.2	5
11	Electrochemically Directed Assembly of Designer Coiled-Coil Telechelic Proteins. ACS Biomaterials Science and Engineering, 2017, 3, 3195-3206.	5.2	9
12	Tyrosine Templating in the Self-Assembly and Crystallization of Silk Fibroin. Biomacromolecules, 2016, 17, 3570-3579.	5.4	54
13	Extracellular Forces Cause the Nucleus to Deform in a Highly Controlled Anisotropic Manner. Scientific Reports, 2016, 6, 21300.	3.3	85
14	Simulating the Entropic Collapse of Coarse-Grained Chromosomes. Biophysical Journal, 2015, 108, 810-820.	0.5	52
15	Rheo-XPCS. Current Opinion in Colloid and Interface Science, 2015, 20, 261-271.	7.4	53
16	Echoes in x-ray speckles track nanometer-scale plastic events in colloidal gels under shear. Physical Review E, 2014, 90, 062310.	2.1	45
17	Coarse-grained molecular dynamics simulations of depletion-induced interactions for soft matter systems. Journal of Chemical Physics, 2014, 141, 244910.	3.0	21
18	Spatial-spectral coupling in coherent anti-Stokes Raman scattering microscopy. Optics Express, 2013, 21, 15298.	3.4	11

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19	Potent inhibition of ice recrystallization by low molecular weight carbohydrate-based surfactants and hydrogelators. <i>Chemical Science</i> , 2012, 3, 1408.	7.4	102
20	Entanglement-Controlled Subdiffusion of Nanoparticles within Concentrated Polymer Solutions. <i>Physical Review Letters</i> , 2012, 109, 055901.	7.8	110
21	Computer simulations of time-dependent suppression of EOF by polymer coatings. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 91-97.	2.2	5
22	Electrophoresis: When hydrodynamics matter. <i>Current Opinion in Colloid and Interface Science</i> , 2012, 17, 74-82.	7.4	36
23	Influence of Charged Polymer Coatings on Electro-Osmotic Flow: Molecular Dynamics Simulations. <i>Macromolecules</i> , 2011, 44, 9455-9463.	4.8	30
24	Gel formation and aging in weakly attractive nanocolloid suspensions at intermediate concentrations. <i>Journal of Chemical Physics</i> , 2011, 135, 154903.	3.0	91
25	Brushlike Interactions between Thermo-responsive Microgel Particles. <i>Physical Review Letters</i> , 2010, 104, 128304.	7.8	86
26	Connecting nanoscale motion and rheology of gel-forming colloidal suspensions. <i>Physical Review E</i> , 2010, 81, 050401.	2.1	39
27	Implicit Method for Simulating Electrohydrodynamics of Polyelectrolytes. <i>Physical Review Letters</i> , 2010, 105, 148301.	7.8	22
28	Biofunctional Coatings via Targeted Covalent Cross-Linking of Associating Triblock Proteins. <i>Biomacromolecules</i> , 2009, 10, 2408-2417.	5.4	20
29	Nanoparticle Motion within Glassy Polymer Melts. <i>Physical Review Letters</i> , 2009, 102, 075702.	7.8	135
30	Molecular Dynamics Simulations of Optimal Dynamic Uncharged Polymer Coatings for Quenching Electro-osmotic Flow. <i>Physical Review Letters</i> , 2009, 102, 108304.	7.8	34
31	Controlling cell adhesion to surfaces via associating bioactive triblock proteins. <i>Biomaterials</i> , 2007, 28, 3325-3337.	11.4	60
32	Self-Assembling Protein Hydrogels with Modular Integrin Binding Domains. <i>Biomacromolecules</i> , 2006, 7, 38-47.	5.4	72
33	Synthesis and Screening of a Random Dimeric Peptide Library Using the One-Bead ² One-Dimer Combinatorial Approach. <i>Bioconjugate Chemistry</i> , 2006, 17, 335-340.	3.6	15
34	Slow dynamics, aging, and glassy rheology in soft and living matter. <i>Solid State Communications</i> , 2006, 139, 589-598.	1.9	48
35	A combinatorial approach to the selective capture of circulating malignant epithelial cells by peptide ligands. <i>Biomaterials</i> , 2005, 26, 6077-6086.	11.4	31
36	Enhanced Elasticity and Soft Glassy Rheology of a Smectic in a Random Porous Environment. <i>Physical Review Letters</i> , 2005, 94, 107801.	7.8	43

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37	Reversible Hydrogels from Self-Assembling Artificial Proteins. , 1998, 281, 389-392.		990
38	Connector Chain Aggregation Effects in Elastomer~Elastomer Adhesion Promotion. Journal of Physical Chemistry B, 1997, 101, 4613-4619.	2.6	5
39	Inhomogeneous Flows of Complex Fluids: Mechanical Instability Versus Non-Equilibrium Phase Transition. Journal De Physique II, 1997, 7, 459-472.	0.9	82
40	Anomalous rheological behavior of ordered phases of block copolymers. 2. Macromolecules, 1993, 26, 4935-4944.	4.8	44
41	Anomalous rheological behavior of ordered phases of block copolymers. 1. Macromolecules, 1993, 26, 4928-4934.	4.8	88
42	Thermal fluctuations of thin wetting films on disordered solids. Langmuir, 1992, 8, 2547-2551.	3.5	20