

James K Ferri

List of Publications by Year in descending order

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34
papers

1,298
citations

430874

18
h-index

377865

34
g-index

34
all docs

34
docs citations

34
times ranked

1687
citing authors

#	ARTICLE	IF	CITATIONS
1	Rheology of interfacial layers. <i>Colloid and Polymer Science</i> , 2010, 288, 937-950.	2.1	216
2	Which surfactants reduce surface tension faster? A scaling argument for diffusion-controlled adsorption. <i>Advances in Colloid and Interface Science</i> , 2000, 85, 61-97.	14.7	187
3	Aggregation kinetics and colloidal stability of functionalized nanoparticles. <i>Advances in Colloid and Interface Science</i> , 2015, 222, 332-349.	14.7	131
4	Surface Phase Behavior and Surface Tension Evolution for Lysozyme Adsorption onto Clean Interfaces and into DPPC Monolayers: Theory and Experiment. <i>Langmuir</i> , 1998, 14, 1208-1218.	3.5	86
5	Influence of Shell Structure on Stability, Integrity, and Mesh Size of Polyelectrolyte Capsules: A Mechanism and Strategy for Improved Preparation. <i>Chemistry of Materials</i> , 2005, 17, 2603-2611.	6.7	76
6	The RNA core weakly influences the interactions of the bacteriophage MS2 at key environmental interfaces. <i>Soft Matter</i> , 2011, 7, 10449.	2.7	48
7	Desorption kinetics of surfactants at fluid interfaces by novel coaxial capillary pendant drop experiments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 319, 13-20.	4.7	44
8	Separating membrane and surface tension contributions in Pickering droplet deformation. <i>Soft Matter</i> , 2008, 4, 2259.	2.7	44
9	From surfactant adsorption kinetics to asymmetric nanomembrane mechanics: Pendant drop experiments with subphase exchange. <i>Advances in Colloid and Interface Science</i> , 2010, 161, 29-47.	14.7	43
10	Elastic Moduli of Asymmetric Ultrathin Free-Standing Polyelectrolyte Nanocomposites. <i>Macromolecules</i> , 2006, 39, 1532-1537.	4.8	39
11	Ultrathin Free-Standing Polyelectrolyte Nanocomposites: A Novel Method for Preparation and Characterization of Assembly Dynamics. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14764-14768.	2.6	37
12	Elastic nanomembrane metrology at fluid-fluid interfaces using axisymmetric drop shape analysis with anisotropic surface tensions: deviations from Young-Laplace equation. <i>Soft Matter</i> , 2012, 8, 10352.	2.7	33
13	Equilibrium and dynamics of PEO/PPO/PEO penetration into DPPC monolayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 261, 39-48.	4.7	31
14	Curvature Effects in the Analysis of Pendant Bubble Data: Comparison of Numerical Solutions, Asymptotic Arguments, and Data. <i>Journal of Colloid and Interface Science</i> , 2001, 241, 154-168.	9.4	30
15	A highly selective fluorescent probe for cyanide ion and its detection mechanism from theoretical calculations. <i>Talanta</i> , 2018, 185, 1-6.	5.5	28
16	Zirconia aerogels for thermal management: Review of synthesis, processing, and properties information architecture. <i>Advances in Colloid and Interface Science</i> , 2021, 295, 102464.	14.7	24
17	Stimulus-Responsive Au@ $(\text{MeO})_2\text{MA}_{x\text{CO}}\text{-OEGMA}_y$ Nanoparticles Stabilized by Non-DLVO Interactions: Implications of Ionic Strength and Copolymer Fraction on Aggregation Kinetics. <i>Langmuir</i> , 2014, 30, 1748-1757.	3.5	21
18	The influence of polyanion molecular weight on polyelectrolyte multilayers at surfaces: protein adsorption and protein-polysaccharide complexation/stripping on natural polysaccharide films on solid supports. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23790-23801.	2.8	21

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19	Modulation of cell responses to Ag ₂ MA-co-OEGMA): Effects of nanoparticle surface hydrophobicity and serum proteins on cellular uptake and toxicity. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1061-1071.	4.0	18
20	Solvent-filled matrix polyelectrolyte capsules: preparation, structure and dynamics. <i>Soft Matter</i> , 2007, 3, 1293.	2.7	16
21	Programming nanoparticle aggregation kinetics with poly(MeO ₂ MA-co-OEGMA) copolymers. <i>Soft Matter</i> , 2013, 9, 11046.	2.7	16
22	Interfacial characterisation for flotation: 2. Air-water interface. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 37, 115-127.	7.4	16
23	The influence of polyanion molecular weight on polyelectrolyte multilayers at surfaces: elasticity and susceptibility to saloplasticity of strongly dissociated synthetic polymers at fluid-fluid interfaces. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23781-23789.	2.8	15
24	Non-equilibrium exchange kinetics in sequential non-ionic surfactant adsorption: Theory and experiment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 323, 12-18.	4.7	12
25	Tuning reversible cell adhesion to methacrylate-based thermoresponsive polymers: Effects of composition on substrate hydrophobicity and cellular responses. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2416-2428.	4.0	11
26	Synthesis of Metal@Protein@Polymer Nanoparticles with Distinct Interfacial and Phase Transfer Behavior. <i>Chemistry of Materials</i> , 2018, 30, 6717-6727.	6.7	11
27	Theoretical Study on the Photoinduced Electron Transfer Mechanisms of Different Peroxynitrite Probes. <i>Journal of Physical Chemistry A</i> , 2018, 122, 217-223.	2.5	8
28	On-site three-dimensional printer aerosol hazard assessment: Pilot study of a portable in vitro exposure cassette. <i>Process Safety Progress</i> , 2019, 38, e12030.	1.0	8
29	Aggregation kinetics of stimulus-responsive polymer-coated gold nanoparticles driven by Hofmeister effects. <i>Colloids and Interface Science Communications</i> , 2015, 9, 9-11.	4.1	7
30	Encapsulation of a highly hydrophilic drug in polymeric particles: A comparative study of batch and microfluidic processes. <i>International Journal of Pharmaceutics</i> , 2021, 606, 120906.	5.2	6
31	Effect of Nanoparticle Surface Chemistry on Adsorption and Fluid Phase Partitioning in Aqueous/Toluene and Cellular Systems. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3610-3617.	0.9	5
32	Enabling intensification of multiphase chemical processes with additive manufacturing. <i>Advances in Colloid and Interface Science</i> , 2020, 285, 102294.	14.7	4
33	Flexible thermoresponsive nanomembranes at the aqueous-air interface. <i>Chemical Communications</i> , 2015, 51, 877-880.	4.1	3
34	Mechanical properties of thin films at the dodecane-water interface, for multilayered emulsion applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 127051.	4.7	3