

# Jacinta C Conrad

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

3,148  
citations

182225

30  
h-index

198040

52  
g-index

93  
all docs

93  
docs citations

93  
times ranked

4480  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoparticle dispersion in porous media: Effects of attractive particle-media interactions. <i>Physical Review E</i> , 2022, 105, .	0.8	1
2	Electrostatic Repulsion Slows Relaxations of Polyelectrolytes in Semidilute Solutions. <i>ACS Macro Letters</i> , 2022, 11, 854-860.	2.3	6
3	Nanoparticle transport within non-Newtonian fluid flow in porous media. <i>Physical Review E</i> , 2022, 106, .	0.8	2
4	Nanoparticle dispersion in porous media: Effects of hydrodynamic interactions and dimensionality. <i>AIChE Journal</i> , 2021, 67, e17147.	1.8	6
5	Roadmap on emerging concepts in the physical biology of bacterial biofilms: from surface sensing to community formation. <i>Physical Biology</i> , 2021, 18, 051501.	0.8	46
6	Isocratic reporter-exclusion immunoassay using restricted-access adsorbents. <i>Analyst</i> , The, 2021, 146, 4835-4840.	1.7	1
7	Effect of Dispersity on the Conformation of Spherical Polymer Brushes. <i>ACS Macro Letters</i> , 2021, 10, 518-524.	2.3	13
8	Dynamics of Flexible Viruses in Polymer Solutions. <i>Macromolecules</i> , 2021, 54, 4557-4563.	2.2	16
9	Nanoparticle dispersion in porous media: Effects of array geometry and flow orientation. <i>Physical Review E</i> , 2021, 104, 015102.	0.8	4
10	Nanoparticle dynamics in semidilute polymer solutions: Rings versus linear chains. <i>Journal of Rheology</i> , 2021, 65, 745-755.	1.3	5
11	Suppressing Barium Sulfate Crystallization with Hydroxycitrate: A Dual Nucleation and Growth Inhibitor. <i>Chemistry of Materials</i> , 2021, 33, 6997-7007.	3.2	7
12	Alginate as a green inhibitor of barite nucleation and crystal growth. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 508-519.	1.7	9
13	Bacterial aggregation assisted by anionic surfactant and calcium ions. <i>Soft Matter</i> , 2021, 17, 8474-8482.	1.2	4
14	Molecular weight and dispersity affect chain conformation and pH-response in weak polyelectrolyte brushes. <i>Polymer Chemistry</i> , 2021, 12, 6737-6744.	1.9	7
15	Local Confinement Controls Diffusive Nanoparticle Dynamics in Semidilute Polyelectrolyte Solutions. <i>Langmuir</i> , 2020, 36, 9153-9159.	1.6	19
16	Acidic Polysaccharides as Green Alternatives for Barite Scale Dissolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 55434-55443.	4.0	11
17	Biophysical methods to quantify bacterial behaviors at oil-water interfaces. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 725-738.	1.4	11
18	Bacterial motility enhances adhesion to oil droplets. <i>Soft Matter</i> , 2020, 16, 8237-8244.	1.2	14

#	ARTICLE	IF	CITATIONS
19	Manuscript Titles: How to Capture Readers and Enhance Citations. ACS Applied Nano Materials, 2020, 3, 3962-3963.	2.4	0
20	Neutral DNA-avidin nanoparticles as ultrasensitive reporters in immuno-PCR. Analyst, The, 2020, 145, 4942-4949.	1.7	1
21	Dynamics of polydisperse hard-spheres under strong confinement. Molecular Physics, 2020, 118, e1728407.	0.8	5
22	Soft Interactions Modify the Diffusive Dynamics of Polymer-Grafted Nanoparticles in Solutions of Free Polymer. ACS Macro Letters, 2019, 8, 917-922.	2.3	18
23	Influence of polymer flexibility on nanoparticle dynamics in semidilute solutions. Soft Matter, 2019, 15, 1260-1268.	1.2	27
24	Contact Networks Enhance Shear Thickening in Attractive Colloid-Polymer Mixtures. Physical Review Letters, 2019, 122, 228003.	2.9	23
25	Structure Dominates Localization of Tracers within Aging Nanoparticle Glasses. Journal of Physical Chemistry Letters, 2019, 10, 1784-1789.	2.1	13
26	A microfluidic approach for probing hydrodynamic effects in barite scale formation. Lab on A Chip, 2019, 19, 1534-1544.	3.1	15
27	Anomalous Dense Liquid Condensates Host the Nucleation of Tumor Suppressor p53 Fibrils. IScience, 2019, 12, 342-355.	1.9	46
28	Rotating oil droplets driven by motile bacteria at interfaces. Soft Matter, 2019, 15, 9368-9375.	1.2	4
29	Tracer transport in attractive and repulsive supercooled liquids and glasses. Journal of Chemical Physics, 2019, 151, 194501.	1.2	9
30	Towards mimicking biological function with responsive surface-grafted polymer brushes. Current Opinion in Solid State and Materials Science, 2019, 23, 1-12.	5.6	14
31	Coupling of Nanoparticle Dynamics to Polymer Center-of-Mass Motion in Semidilute Polymer Solutions. Macromolecules, 2018, 51, 1865-1872.	2.2	32
32	Preface to the Early Career Authors in Fundamental Colloid and Interface Science Special Issue. Langmuir, 2018, 34, 727-728.	1.6	0
33	Tunable Assembly of Gold Nanorods in Polymer Solutions To Generate Controlled Nanostructured Materials. ACS Applied Nano Materials, 2018, 1, 877-885.	2.4	18
34	Confined Flow: Consequences and Implications for Bacteria and Biofilms. Annual Review of Chemical and Biomolecular Engineering, 2018, 9, 175-200.	3.3	59
35	Level of Fimbriation Alters the Adhesion of <i>Escherichia coli</i> Bacteria to Interfaces. Langmuir, 2018, 34, 1133-1142.	1.6	31
36	Adhesion of <i>Marinobacter hydrocarbonoclasticus</i> to Surfactant-Decorated Dodecane Droplets. Langmuir, 2018, 34, 14012-14021.	1.6	21

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37	Dispersity control in atom transfer radical polymerizations through addition of phenylhydrazine. <i>Polymer Chemistry</i> , 2018, 9, 4332-4342.	1.9	44
38	Tracer Transport Probes Relaxation and Structure of Attractive and Repulsive Glassy Liquids. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3008-3013.	2.1	11
39	Aqueous Colloid + Polymer Depletion System for Confocal Microscopy and Rheology. <i>Frontiers in Physics</i> , 2018, 6, .	1.0	6
40	Increasing Binding Efficiency via Reporter Shape and Flux in a Viral Nanoparticle Lateral-Flow Assay. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6878-6884.	4.0	13
41	Phase behavior of colloid-polymer depletion mixtures with unary or binary depletants. <i>Soft Matter</i> , 2017, 13, 2781-2792.	1.2	10
42	Shear flow suppresses the volume of the nucleation precursor clusters in lysozyme solutions. <i>Journal of Crystal Growth</i> , 2017, 468, 493-501.	0.7	16
43	Particle dispersion in porous media: Differentiating effects of geometry and fluid rheology. <i>Physical Review E</i> , 2017, 96, 022610.	0.8	18
44	Confined Dynamics of Grafted Polymer Chains in Solutions of Linear Polymer. <i>Macromolecules</i> , 2017, 50, 7372-7379.	2.2	23
45	Differential dynamic microscopy of bidisperse colloidal suspensions. <i>Npj Microgravity</i> , 2017, 3, 21.	1.9	11
46	Polymorphism of Lysozyme Condensates. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9091-9101.	1.2	19
47	Tuning Bacterial Attachment and Detachment via the Thickness and Dispersity of a pH-Responsive Polymer Brush. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 44900-44910.	4.0	46
48	Orientational binding modes of reporters in a viral-nanoparticle lateral flow assay. <i>Analyst, The</i> , 2017, 142, 55-64.	1.7	6
49	Flotation Immunoassay: Masking the Signal from Free Reporters in Sandwich Immunoassays. <i>Scientific Reports</i> , 2016, 6, 24297.	1.6	11
50	Structure and Dynamics of Interacting Nanoparticles in Semidilute Polymer Solutions. <i>Macromolecules</i> , 2016, 49, 6568-6577.	2.2	36
51	Nanoparticle diffusion in crowded and confined media. <i>Soft Matter</i> , 2016, 12, 8407-8416.	1.2	38
52	Gelation in mixtures of polymers and bidisperse colloids. <i>Physical Review E</i> , 2016, 93, 012610.	0.8	9
53	Bacteria differently deploy type-IV pili on surfaces to adapt to nutrient availability. <i>Npj Biofilms and Microbiomes</i> , 2016, 2, 15029.	2.9	35
54	Nanoparticle dispersion in disordered porous media with and without polymer additives. <i>Soft Matter</i> , 2016, 12, 5676-5683.	1.2	22

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55	Subnanometric Roughness Affects the Deposition and Mobile Adhesion of <i>Escherichia coli</i> on Silanized Glass Surfaces. <i>Langmuir</i> , 2016, 32, 5422-5433.	1.6	36
56	Protein Conformational Flexibility Enables the Formation of Dense Liquid Clusters: Tests Using Solution Shear. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2339-2345.	2.1	18
57	Hysteretic memory in pH-response of water contact angle on poly(acrylic acid) brushes. <i>Soft Matter</i> , 2016, 12, 3589-3599.	1.2	49
58	Differential dynamic microscopy of weakly scattering and polydisperse protein-rich clusters. <i>Physical Review E</i> , 2015, 92, 042712.	0.8	33
59	Diffusive dynamics of nanoparticles in ultra-confined media. <i>Soft Matter</i> , 2015, 11, 7515-7524.	1.2	34
60	Detection of Viruses By Counting Single Fluorescent Genetically Biotinylated Reporter Immunophage Using a Lateral Flow Assay. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 2891-2898.	4.0	21
61	Molecular simulation of natural gas transport and storage in shale rocks with heterogeneous nano-pore structures. <i>Journal of Petroleum Science and Engineering</i> , 2015, 133, 401-409.	2.1	41
62	Size-Dependent Dynamics of Nanoparticles in Unentangled Polyelectrolyte Solutions. <i>ACS Macro Letters</i> , 2015, 4, 1169-1173.	2.3	67
63	Aptamer-Phage Reporters for Ultrasensitive Lateral Flow Assays. <i>Analytical Chemistry</i> , 2015, 87, 11660-11665.	3.2	35
64	Transport and Dispersion of Nanoparticles in Periodic Nanopost Arrays. <i>ACS Nano</i> , 2014, 8, 4221-4227.	7.3	35
65	Attachment from Flow of <i>Escherichia coli</i> Bacteria onto Silanized Glass Substrates. <i>Langmuir</i> , 2014, 30, 11147-11155.	1.6	30
66	Mobility of Nanoparticles in Semidilute Polyelectrolyte Solutions. <i>Macromolecules</i> , 2014, 47, 5328-5333.	2.2	46
67	Confocal Imaging of Confined Quiescent and Flowing Colloid-polymer Mixtures. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	1
68	Regulation of directional cell migration by membrane-induced actin bundling. <i>Journal of Cell Science</i> , 2013, 126, 312-326.	1.2	33
69	Dynamics of confined depletion mixtures of polymers and bidispersed colloids. <i>Soft Matter</i> , 2013, 9, 10617.	1.2	12
70	Diffusive Dynamics of Nanoparticles in Arrays of Nanoposts. <i>ACS Nano</i> , 2013, 7, 5122-5130.	7.3	89
71	Dynamics of confined colloid-polymer mixtures. , 2013, , .		2
72	Quantifying collective behavior in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7591-7592.	3.3	9

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73	Effects of attraction strength on microchannel flow of colloid-polymer depletion mixtures. <i>Soft Matter</i> , 2012, 8, 10695.	1.2	9
74	Physics of bacterial near-surface motility using flagella and type IV pili: implications for biofilm formation. <i>Research in Microbiology</i> , 2012, 163, 619-629.	1.0	88
75	Structural evolution of cuboidal granular media. <i>Soft Matter</i> , 2012, 8, 4795.	1.2	11
76	Diffusive dynamics of nanoparticles in aqueous dispersions. <i>Soft Matter</i> , 2012, 8, 11933.	1.2	41
77	Confinement-Induced Solidification of Colloid-Polymer Depletion Mixtures. <i>Physical Review Letters</i> , 2012, 109, 028301.	2.9	20
78	Flagella and Pili-Mediated Near-Surface Single-Cell Motility Mechanisms in <i>P. aeruginosa</i> . <i>Biophysical Journal</i> , 2011, 100, 1608-1616.	0.2	197
79	Designing colloidal suspensions for directed materials assembly. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 71-79.	3.4	57
80	Bacteria use type-IV pili to slingshot on surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12617-12622.	3.3	115
81	Structural Evolution of Colloidal Gels During Constricted Microchannel Flow. <i>Langmuir</i> , 2010, 26, 6102-6107.	1.6	12
82	Bacteria Use Type IV Pili to Walk Upright and Detach from Surfaces. <i>Science</i> , 2010, 330, 197-197.	6.0	168
83	Evaporative lithographic patterning of binary colloidal films. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 5157-5165.	1.6	32
84	Structure of Colloidal Gels during Microchannel Flow. <i>Langmuir</i> , 2008, 24, 7628-7634.	1.6	48
85	Patterning Colloidal Films via Evaporative Lithography. <i>Physical Review Letters</i> , 2007, 98, 148301.	2.9	170
86	Microfluidic Assembly of Homogeneous and Janus Colloid-Filled Hydrogel Granules. <i>Langmuir</i> , 2006, 22, 8618-8622.	1.6	251
87	Contribution of Slow Clusters to the Bulk Elasticity Near the Colloidal Glass Transition. <i>Physical Review Letters</i> , 2006, 97, 265701.	2.9	45
88	Fluids of Clusters in Attractive Colloids. <i>Physical Review Letters</i> , 2006, 96, 028306.	2.9	200
89	Classlike Arrest in Spinodal Decomposition as a Route to Colloidal Gelation. <i>Physical Review Letters</i> , 2005, 95, 238302.	2.9	166
90	Weak Correlations between Local Density and Dynamics near the Glass Transition. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21235-21240.	1.2	34

#	ARTICLE	IF	CITATIONS
91	Suppressing barite crystallization with organophosphorus compounds. CrystEngComm, 0, , .	1.3	1