

Carlos Drummond

List of Publications by Year in descending order

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63
papers

2,694
citations

218381

26
h-index

174990

52
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65
all docs

65
docs citations

65
times ranked

3459
citing authors

#	ARTICLE	IF	CITATIONS
1	Electroresponsive Weak Polyelectrolyte Brushes. <i>Macromolecules</i> , 2022, 55, 2636-2648.	2.2	3
2	Ions in an AC Electric Field: Strong Long-Range Repulsion between Oppositely Charged Surfaces. <i>Physical Review Letters</i> , 2020, 125, 056001.	2.9	17
3	Weak polyelectrolyte brushes: re-entrant swelling and self-organization. <i>Soft Matter</i> , 2020, 16, 7727-7738.	1.2	2
4	Compliant Surfaces under Shear: Elastohydrodynamic Lift Force. <i>Langmuir</i> , 2019, 35, 15605-15613.	1.6	11
5	Can Polyoxometalates Be Considered as Superchaotropic Ions?. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28744-28752.	1.5	17
6	Interaction between Compliant Surfaces: How Soft Surfaces Can Reduce Friction. <i>Langmuir</i> , 2019, 35, 15723-15728.	1.6	9
7	Protein-surface interactions at the nanoscale: Atomistic simulations with implicit solvent models. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 41, 40-49.	3.4	20
8	Effect of organic and inorganic ions on the lower critical solution transition and aggregation of PNIPAM. <i>Soft Matter</i> , 2018, 14, 7818-7828.	1.2	25
9	Hydroxide Ions Stabilize Open Carbon Nanotubes in Degassed Water. <i>ACS Nano</i> , 2018, 12, 8606-8615.	7.3	7
10	Interaction of organic ions with proteins. <i>Soft Matter</i> , 2017, 13, 1120-1131.	1.2	15
11	Electrowetting of Weak Polyelectrolyte-Coated Surfaces. <i>Langmuir</i> , 2017, 33, 4996-5005.	1.6	10
12	Electro-responsive polyelectrolyte-coated surfaces. <i>Faraday Discussions</i> , 2017, 199, 335-347.	1.6	7
13	Nanotribology and voltage-controlled friction: general discussion. <i>Faraday Discussions</i> , 2017, 199, 349-376.	1.6	0
14	Electroactuators: from understanding to micro-robotics and energy conversion: general discussion. <i>Faraday Discussions</i> , 2017, 199, 525-545.	1.6	2
15	Electrotunable wetting, and micro- and nanofluidics: general discussion. <i>Faraday Discussions</i> , 2017, 199, 195-237.	1.6	2
16	Surfactant-free single-layer graphene in water. <i>Nature Chemistry</i> , 2017, 9, 347-352.	6.6	175
17	Adsorption of Milk Proteins (β^2 -Casein and β^2 -Lactoglobulin) and BSA onto Hydrophobic Surfaces. <i>Materials</i> , 2017, 10, 893.	1.3	46
18	Raman Signatures of Single Layer Graphene Dispersed in Degassed Water, "Eau de Graphene"™. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28204-28214.	1.5	25

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19	“Eau de graphene” from a KC ₈ graphite intercalation compound prepared by a simple mixing of graphite and molten potassium. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 895-899.	1.2	17
20	Single layer nano graphene platelets derived from graphite nanofibres. <i>Nanoscale</i> , 2016, 8, 8810-8818.	2.8	19
21	Ions at interfaces: the central role of hydration and hydrophobicity. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 23, 19-28.	3.4	78
22	Anions make the difference: insights from the interaction of big cations and anions with poly(N-isopropylacrylamide) chains and microgels. <i>Soft Matter</i> , 2015, 11, 5077-5086.	1.2	26
23	Experimental Study and Modeling of Boundary Lubricant Polyelectrolyte Films. <i>Macromolecules</i> , 2015, 48, 2244-2253.	2.2	15
24	Spatial Heterogeneity of Glassy Polymer Films. <i>Macromolecules</i> , 2015, 48, 2787-2792.	2.2	9
25	On the conformational state of molecules in molecularly thin shearing films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4973.	3.3	9
26	Spontaneous Structuration of Hydrophobic Polymer Surfaces in Contact with Salt Solutions. , 2015, , 257-272.		1
27	Surface Forces Apparatus in Nanotribology. <i>Nanoscience and Technology</i> , 2015, , 17-34.	1.5	1
28	Nonconventional Methods for Patterning Polymer Surfaces. , 2015, , 1-21.		0
29	Contact Interaction of Double-Chained Surfactant Layers on Silica: Bilayer Rupture and Capillary Bridge Formation. <i>Langmuir</i> , 2013, 29, 14473-14481.	1.6	0
30	Deconstructing Graphite: Graphenide Solutions. <i>Accounts of Chemical Research</i> , 2013, 46, 129-137.	7.6	99
31	Ions-Induced Nanostructuration: Effect of Specific Ionic Adsorption on Hydrophobic Polymer Surfaces. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6814-6822.	1.2	11
32	Boundary Lubricant Polymer Films: Effect of Cross-Linking. <i>Langmuir</i> , 2013, 29, 12936-12949.	1.6	15
33	Electric-Field-Induced Friction Reduction and Control. <i>Physical Review Letters</i> , 2012, 109, 154302.	2.9	60
34	Substrate Remote Control of Polymer Film Surface Mobility. <i>Macromolecules</i> , 2012, 45, 1001-1005.	2.2	34
35	Solutions of fully exfoliated individual graphene flakes in low boiling point solvents. <i>Soft Matter</i> , 2012, 8, 7882.	1.2	46
36	Portrait of carbon nanotube salts as soluble polyelectrolytes. <i>Soft Matter</i> , 2011, 7, 7998.	1.2	38

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37	Graphene solutions. <i>Chemical Communications</i> , 2011, 47, 5470-5472.	2.2	78
38	Water-Ions Induced Nanostructuring of Hydrophobic Polymer Surfaces. <i>ACS Nano</i> , 2011, 5, 2939-2947.	7.3	41
39	Dendritic Carrier Based on PEG: Design and Degradation of Acid-sensitive Dendrimer-like Poly(ethylene Terephthalate) Grafts. <i>Journal of Polymer Science: Part B: Polymer Physics</i> , 2011, 49, 1431-1440.	2.0	20
40	Effect of Surfactant Oligomerization Degree on Lubricant Properties of Mixed Surfactant-Diblock Copolymer Films. <i>Tribology Letters</i> , 2010, 39, 31-38.	1.2	8
41	Delamination and Renovation of a Molecular Surfactant-Polymer Boundary Lubricant Film. <i>Langmuir</i> , 2009, 25, 11472-11479.	1.6	2
42	Solutions of Negatively Charged Graphene Sheets and Ribbons. <i>Journal of the American Chemical Society</i> , 2008, 130, 15802-15804.	6.6	444
43	Design of Stimuli-Responsive Surfaces Prepared by Surface Segregation of Polypeptide-b-polystyrene Diblock Copolymers. <i>Macromolecules</i> , 2008, 41, 1053-1056.	2.2	18
44	Reinforcement of a Surfactant Boundary Lubricant Film by a Hydrophilic-Hydrophilic Diblock Copolymer. <i>Langmuir</i> , 2008, 24, 1560-1565.	1.6	15
45	Boundary lubricant films under shear: Effect of roughness and adhesion. <i>Journal of Chemical Physics</i> , 2007, 126, 184906.	1.2	21
46	Triblock Copolymer Lubricant Films under Shear: Effect of Molecular Cross-Linking. <i>Journal of Adhesion</i> , 2007, 83, 431-448.	1.8	6
47	Surfactant Boundary Lubricant Film Modified by an Amphiphilic Diblock Copolymer. <i>Langmuir</i> , 2005, 21, 2779-2788.	1.6	30
48	Behavior of adhesive boundary lubricated surfaces under shear: Effect of grafted diblock copolymers. <i>European Physical Journal E</i> , 2004, 15, 159-165.	0.7	13
49	Fundamental studies of crude oil-water surface interactions and its relationship to reservoir wettability. <i>Journal of Petroleum Science and Engineering</i> , 2004, 45, 61-81.	2.1	147
50	Friction between two weakly adhering boundary lubricated surfaces in water. <i>Physical Review E</i> , 2003, 67, 066110.	0.8	102
51	Shear alignment of confined hydrocarbon liquid films. <i>Physical Review E</i> , 2002, 66, 011705.	0.8	41
52	Behavior of adhesive boundary lubricated surfaces under shear: A new dynamic transition. <i>Europhysics Letters</i> , 2002, 58, 503-509.	0.7	29
53	Surface forces and wettability. <i>Journal of Petroleum Science and Engineering</i> , 2002, 33, 123-133.	2.1	133
54	Dynamic phase transitions in confined lubricant fluids under shear. <i>Physical Review E</i> , 2001, 63, 041506.	0.8	94

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55	Inverted stick-slip friction. Europhysics Letters, 2001, 55, 653-659.	0.7	34
56	Inverted stick-slip friction between two molecularly smooth adhesive surfaces sliding in a solution. Tribology Series, 2001, 39, 875-882.	0.1	0
57	Microtribology and Friction-Induced Material Transfer in WS ₂ Nanoparticle Additives. Advanced Functional Materials, 2001, 11, 348-354.	7.8	64
58	In situ imaging of shearing contacts in the surface forces apparatus. Wear, 2000, 245, 190-195.	1.5	27
59	Some fundamental differences in the adhesion and friction of rough versus smooth surfaces. Tribology Series, 2000, 38, 3-12.	0.1	22
60	Dynamic Behavior of Confined Branched Hydrocarbon Lubricant Fluids under Shear. Macromolecules, 2000, 33, 4910-4920.	2.2	95
61	Microtribology and Direct Force Measurement of WS ₂ Nested Fullerene-Like Nanostructures. Advanced Materials, 1999, 11, 934-937.	11.1	83
62	Amontons' law at the molecular level. Tribology Letters, 1998, 4, 95-101.	1.2	153
63	Coupling of Normal and Transverse Motions during Frictional Sliding. Journal of Physical Chemistry B, 1998, 102, 5038-5041.	1.2	91