Christos N Likos

List of Publications by Citations

248 papers	10,123 citations	51 h-index	89 g-index
263 ext. papers	10,632 ext. citations	4.8 avg, IF	6.56 L-index

#	Paper	IF	Citations
248	Effective interactions in soft condensed matter physics. *Physics Reports*, **2001**, 348, 267-439	27.7	919
247	Star Polymers Viewed as Ultrasoft Colloidal Particles. *Physical Review Letters*, **1998**, 80, 4450-4453	7.4	426
246	Patchy colloids: state of the art and perspectives. *Physical Chemistry Chemical Physics*, **2011**, 13, 6397-410	3.6	368
245	Dendrimers in solution: insight from theory and simulation. *Angewandte Chemie - International Edition*, **2004**, 43, 2998-3020	16.4	317
244	Phase Diagram of Star Polymer Solutions. *Physical Review Letters*, **1999**, 82, 5289-5292	7.4	269
243	Soft matter with soft particles. *Soft Matter*, **2006**, 2, 478-498	3.6	259
242	Criterion for determining clustering versus reentrant melting behavior for bounded interaction potentials. *Physical Review E*, **2001**, 63, 031206	2.4	229
241	Fluid and solid phases of the Gaussian core model. *Journal of Physics Condensed Matter*, **2000**, 12, 5087-5108	1.8	205
240	Formation of polymorphic cluster phases for a class of models of purely repulsive soft spheres. *Physical Review Letters*, **2006**, 96, 045701	7.4	195
239	Why do ultrasoft repulsive particles cluster and crystallize? Analytical results from density-functional theory. *Journal of Chemical Physics*, **2007**, 126, 224502	3.9	152
238	Phase behavior of ionic microgels. *Physical Review Letters*, **2004**, 92, 068301	7.4	116
237	Gaussian effective interaction between flexible dendrimers of fourth generation: A theoretical and experimental study. *Journal of Chemical Physics*, **2002**, 117, 1869-1877	3.9	110
236	Counterion-induced entropic interactions in solutions of strongly stretched, osmotic polyelectrolyte stars. *Journal of Chemical Physics*, **2002**, 116, 11011-11027	3.9	106
235	Asymmetric caging in soft colloidal mixtures. *Nature Materials*, **2008**, 7, 780-4	27	104
234	Structural arrest in dense star-polymer solutions. *Physical Review Letters*, **2003**, 90, 238301	7.4	102
233	Conformations and interactions of star-branched polyelectrolytes. *Physical Review Letters*, **2002**, 88, 018301	7.4	96
232	Soft Interaction between Dissolved Flexible Dendrimers: Theory and Experiment. *Macromolecules*, **2001**, 34, 2914-2920	5.5	94

231	Counterion distributions and effective interactions of spherical polyelectrolyte brushes. *Colloid and Polymer Science*, **2004**, 282, 910-917	2.4	91
230	Partial clustering in binary two-dimensional colloidal suspensions. *Physical Review Letters*, **2006**, 97, 078301	7.4	88
229	Freezing and clustering transitions for penetrable spheres. *Physical Review E*, **1998**, 58, 3135-3144	2.4	86
228	Depletion forces in nonequilibrium. *Physical Review Letters*, **2003**, 91, 248301	7.4	84
227	Computer assembly of cluster-forming amphiphilic dendrimers. *Physical Review Letters*, **2008**, 100, 028301	7.4	83
226	Polymer-mediated melting in ultrasoft colloidal gels. *Physical Review Letters*, **2002**, 89, 208302	7.4	83
225	Complex alloy phases for binary hard-disc mixtures. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1993**, 68, 85-113		76
224	Conformations of Flexible Dendrimers: A Simulation Study. *Macromolecules*, **2003**, 36, 8189-8197	5.5	75
223	Confined diffusion in periodic porous nanostructures. *ACS Nano*, **2011**, 5, 4607-16	16.7	74
222	End-functionalized polymers: Versatile building blocks for soft materials. *Polymer*, **2008**, 49, 1425-1434	3.9	72
221	Predicting equilibrium structures in freezing processes. *Journal of Chemical Physics*, **2005**, 122, 204503	3.9	72
220	Effective interactions between star polymers and colloidal particles. *Journal of Physics Condensed Matter*, **2001**, 13, 6177-6194	1.8	71
219	Can dendrimers be viewed as compact colloids? A simulation study of the fluctuations in a dendrimer of fourth generation. *Journal of Chemical Physics*, **2003**, 118, 1979-1988	3.9	70
218	Colloidal crystal growth at externally imposed nucleation clusters. *Physical Review Letters*, **2008**, 100, 108302	7.4	69
217	Tunable effective interactions between dendritic macromolecules. *Journal of Chemical Physics*, **2004**, 120, 7761-71	3.9	69
216	Colloidal Stabilization by Adsorbed Gelatin. *Langmuir*, **2000**, 16, 4100-4108	4	69
215	Genetic algorithms predict formation of exotic ordered configurations for two-component dipolar monolayers. *Soft Matter*, **2008**, 4, 480-484	3.6	68
214	Ionic microgels as model systems for colloids with an ultrasoft electrosteric repulsion: structure and thermodynamics. *Journal of Chemical Physics*, **2005**, 122, 074903	3.9	65

213	Tailoring the flow of soft glasses by soft additives. *Physical Review Letters*, **2005**, 95, 268301	7.4	65
212	The anomalous structure factor of dense star polymer solutions. *Journal of Physics Condensed Matter*, **1998**, 10, 8189-8205	1.8	62
211	Telechelic star polymers as self-assembling units from the molecular to the macroscopic scale. *Physical Review Letters*, **2012**, 109, 238301	7.4	60
210	Depletion and cluster formation in soft colloid - polymer mixtures. *Europhysics Letters*, **2005**, 72, 664-670	1.6	60
209	Diffusion and relaxation dynamics in cluster crystals. *Physical Review Letters*, **2007**, 99, 107801	7.4	59
208	Statistical morphology of random interfaces in microemulsions. *Journal of Chemical Physics*, **1995**, 102, 9350-9361	3.9	59
207	Inverse patchy colloids: from microscopic description to mesoscopic coarse-graining. *Soft Matter*, **2011**, 7, 8313	3.6	58
206	Exotic fluids and crystals of soft polymeric colloids. *Journal of Physics Condensed Matter*, **2002**, 14, 7681-7698	1.8	57
205	Charge-Induced Conformational Changes of Dendrimers. *Macromolecules*, **2008**, 41, 4452-4458	5.5	56
204	Multiple occupancy crystals formed by purely repulsive soft particles. *Journal of Physics Condensed Matter*, **2008**, 20, 494245	1.8	55
203	Phase behavior of columnar DNA assemblies. *Physical Review Letters*, **2002**, 89, 018303	7.4	55
202	Structure and thermodynamics of square-well and square-shoulder fluids. *Journal of Physics Condensed Matter*, **1999**, 11, 10143-10161	1.8	54
201	Is there a reentrant glass in binary mixtures?. *Physical Review Letters*, **2004**, 92, 225703	7.4	53
200	Density-functional theory of solid-to-solid isostructural transitions. *Journal of Physics Condensed Matter*, **1994**, 6, 10965-10975	1.8	53
199	Tunable assembly of heterogeneously charged colloids. *Nano Letters*, **2014**, 14, 3412-8	11.5	52
198	Ordering phenomena of star polymer solutions approaching the □state. *Physical Review E*, **1998**, 58, 6299-6307	2.4	52
197	Influence of Rigidity and Knot Complexity on the Knotting of Confined Polymers. *Macromolecules*, **2014**, 47, 3394-3400	5.5	51
196	Mean-field dynamical density functional theory. *Journal of Physics Condensed Matter*, **2003**, 15, L147-L154	1.8	49

195	Pattern formation and coarse-graining in two-dimensional colloids driven by multiaxial magnetic fields. *Langmuir*, **2014**, 30, 5088-96	4	48
194	Effects of Knots on Ring Polymers in Solvents of Varying Quality. *Macromolecules*, **2013**, 46, 3654-3668	5.5	48
193	Influence of topology on effective potentials: coarse-graining ring polymers. *Soft Matter*, **2010**, 6, 2435	3.6	48
192	Equilibrium properties of charged microgels: a Poisson-Boltzmann-Flory approach. *Journal of Chemical Physics*, **2014**, 141, 234902	3.9	47
191	Star Polymers in Solvents of Varying Quality. *Macromolecules*, **2009**, 42, 2806-2816	5.5	47
190	Clustering in the absence of attractions: density functional theory and computer simulations. *Journal of Physical Chemistry B*, **2007**, 111, 12799-808	3.4	47
189	Self-assembly of heterogeneously charged particles under confinement. *ACS Nano*, **2013**, 7, 4657-67	16.7	45
188	Fluids of semiflexible ring polymers: effective potentials and clustering. *Soft Matter*, **2013**, 9, 1287-1300	3.6	45
187	Flow-induced polymer translocation through narrow and patterned channels. *Journal of Chemical Physics*, **2010**, 133, 074901	3.9	45
186	Colloquium: Star-branched polyelectrolytes: The physics of their conformations and interactions. *Reviews of Modern Physics*, **2009**, 81, 1753-1772	40.5	45
185	Crystal structures of two-dimensional magnetic colloids in tilted external magnetic fields. *Physical Review E*, **2003**, 68, 061406	2.4	45
184	Microscopically resolved simulations prove the existence of soft cluster crystals. *Physical Review Letters*, **2012**, 109, 228301	7.4	44
183	Phase behavior and structure of star-polymer□colloid mixtures. *Journal of Chemical Physics*, **2002**, 116, 9518-9530	3.9	44
182	Multiple Glass Transitions in Star Polymer Mixtures: Insights from Theory and Simulations. *Macromolecules*, **2009**, 42, 423-434	5.5	42
181	Triplet interactions in star polymer solutions. *European Physical Journal E*, **2000**, 2, 311	1.5	42
180	Polyelectrolyte-compression forces between spherical DNA brushes. *Physical Review Letters*, **2008**, 100, 118302	7.4	41
179	Inverse patchy colloids: Synthesis, modeling and self-organization. *Current Opinion in Colloid and Interface Science*, **2017**, 30, 8-15	7.6	40
178	Ultrasoft colloid-polymer mixtures: structure and phase diagram. *Physical Review Letters*, **2011**, 106, 228301	7.4	39

177	Active topological glass. *Nature Communications*, **2020**, 11, 26	17.4	38
176	Unusual features of depletion interactions in soft polymer-based colloids mixed with linear homopolymers. *Physical Review Letters*, **2010**, 104, 078301	7.4	38
175	Coarse-Graining of Ionic Microgels: Theory and Experiment. *Zeitschrift Fur Physikalische Chemie*, **2012**, 226, 711-735	3.1	38
174	Determination of the structure factor of polymeric systems in solution by small-angle scattering: A SANS-study of a dendrimer of fourth generation. *Macromolecular Chemistry and Physics*, **2002**, 203, 1995-2004	2.6	38
173	Dendrimere in Lösung: Erkenntnisse aus Theorie und Simulation. *Angewandte Chemie*, **2004**, 116, 3060-3082	3.6	38
172	Dynamic phase diagram of soft nanocolloids. *Nanoscale*, **2015**, 7, 13924-34	7.7	37
171	Phase separation in star-polymer-colloid mixtures. *Physical Review E*, **2001**, 64, 010401	2.4	37
170	Self-consistent theory of freezing of the classical one-component plasma. *Physical Review Letters*, **1992**, 69, 316-319	7.4	36
169	Soft-core binary fluid exhibiting a λ-line and freezing to a highly delocalized crystal. *Journal of Physics Condensed Matter*, **2004**, 16, L297-L303	1.8	35
168	Linear screening of the electrostatic potential around spherical particles with non-spherical charge patterns. *Molecular Physics*, **2004**, 102, 857-867	1.7	35
167	Polydisperse star polymer solutions. *Physical Review E*, **2000**, 62, 6949-56	2.4	35
166	Aggregation phenomena in telechelic star polymer solutions. *Physical Review E*, **2009**, 79, 010401	2.4	34
165	A Coarse-Grained Description of Star−Linear Polymer Mixtures. *Macromolecules*, **2007**, 40, 1196-1206	5.5	34
164	Collapse of telechelic star polymers to watermelon structures. *Physical Review Letters*, **2006**, 96, 187802	7.4	34
163	Charged colloids, polyelectrolytes and biomolecules viewed as strongly coupled Coulomb systems. *Journal of Physics A*, **2003**, 36, 5827-5834		34
162	Effect of Bending Rigidity on the Knotting of a Polymer under Tension. *ACS Macro Letters*, **2012**, 1, 1352-1356	6.1	33
161	Osmotic shrinkage in star/linear polymer mixtures. *European Physical Journal E*, **2010**, 32, 127-34	1.5	33
160	Soft-patchy nanoparticles: modeling and self-organization. *Faraday Discussions*, **2015**, 181, 123-38	3.6	32

159	Multi-blob coarse graining for ring polymer solutions. *Soft Matter*, **2014**, 10, 9601-14	3.6	32
158	Cluster Glasses of Semiflexible Ring Polymers. *ACS Macro Letters*, **2014**, 3, 611-616	6.6	32
157	Azimuthal frustration and bundling in columnar DNA aggregates. *Biophysical Journal*, **2003**, 84, 3607-23	2.9	32
156	Branched Polymers under Shear. *Macromolecules*, **2010**, 43, 1610-1620	5.5	31
155	Ordering in two-dimensional dipolar mixtures. *Langmuir*, **2009**, 25, 7836-46	4	31
154	Structure and phase behavior of polyelectrolyte star solutions. *Journal of Chemical Physics*, **2004**, 121, 7009-21	3.9	31
153	Soft colloids driven and sheared by traveling wave fields. *Physical Review E*, **2005**, 72, 021404	2.4	31
152	Binary star-polymer solutions: bulk and interfacial properties. *Journal of Physics Condensed Matter*, **2002**, 14, 12031-12050	1.8	31
151	Validity of the Stokes-Einstein Relation in Soft Colloids up to the Glass Transition. *Physical Review Letters*, **2015**, 115, 128302	7.4	30
150	Trefoil Knot Hydrodynamic Delocalization on Sheared Ring Polymers. *ACS Macro Letters*, **2018**, 7, 447-452	6.6	28
149	Monomer-resolved simulations of cluster-forming dendrimers. *Journal of Physical Chemistry B*, **2011**, 115, 7218-26	3.4	28
148	Cluster crystals in confinement. *Soft Matter*, **2009**, 5, 1024	3.6	28
147	Bottom-Up Colloidal Crystal Assembly with a Twist. *ACS Nano*, **2016**, 10, 5459-67	16.7	28
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145	Structures and pathways for clathrin self-assembly in the bulk and on membranes. *Soft Matter*, **2013**, 9, 5794	3.6	27
144	Structure, phase behavior, and inhomogeneous fluid properties of binary dendrimer mixtures. *Journal of Chemical Physics*, **2006**, 124, 084901	3.9	27
143	Microphase structuring in two-dimensional magnetic colloid mixtures. *Journal of Physics Condensed Matter*, **2006**, 18, 10193-10211	1.8	27
142	Soft self-assembled nanoparticles with temperature-dependent properties. *Nanoscale*, **2016**, 8, 3288-95	7.7	26

141	Interactions between planar stiff polyelectrolyte brushes. *Physical Review E*, **2009**, 80, 010801	2.4	26
140	From sea-urchins to starfishes: controlling the adsorption of star-branched polyelectrolytes on charged walls. *Soft Matter*, **2007**, 3, 1130-1134	3.6	26
139	Star Polymers with Tunable Attractions: Cluster Formation, Phase Separation, Reentrant Crystallization **2006**, 78-87		26
138	Phase separation in star-linear polymer mixtures. *Journal of Chemical Physics*, **2009**, 130, 204904	3.9	25
137	Dynamics of Dense Suspensions of Star-Like Micelles with Responsive Fixed Cores. *Macromolecular Chemistry and Physics*, **2005**, 206, 163-172	2.6	25
136	An Anisotropic Effective Model for the Simulation of Semiflexible Ring Polymers. *Macromolecules*, **2015**, 48, 4983-4997	5.5	24
135	Coarse graining of star-polymer--colloid nanocomposites. *Journal of Chemical Physics*, **2012**, 137, 014902	3.9	24
134	The effects of pH, salt and bond stiffness on charged dendrimers. *Journal of Physics Condensed Matter*, **2010**, 22, 232101	1.8	24
133	Cluster-forming systems of ultrasoft repulsive particles: statics and dynamics. *Computer Physics Communications*, **2008**, 179, 71-76	4.2	24
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130	Density-functional theory of nonuniform classical liquids: An extended modified weighted-density approximation. *Journal of Chemical Physics*, **1993**, 99, 9090-9102	3.9	24
129	Flow quantization and nonequilibrium nucleation of soft crystals. *Soft Matter*, **2012**, 8, 4121	3.6	23
128	Conformations of high-generation dendritic polyelectrolytes. *Journal of Materials Chemistry*, **2010**, 20, 10486		23
127	Computer Simulation of Thermally Sensitive Telechelic Star Polymers *Journal of Physical Chemistry C*, **2007**, 111, 15803-15810	3.8	23
126	Soft effective interactions between weakly charged polyelectrolyte chains. *Journal of Chemical Physics*, **2004**, 121, 4913-24	3.9	23
125	Elasticity of polymeric nanocolloidal particles. *Scientific Reports*, **2015**, 5, 15854	4.9	22
124	Colloidal layers in magnetic fields and under shear flow. *Journal of Physics Condensed Matter*, **2005**, 17, S3379-S3386	1.8	22

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121	Depletion, melting and reentrant solidification in mixtures of soft and hard colloids. *Soft Matter*, **2015**, 11, 8296-312	3.6	21
120	Influence of fluctuating membranes on self-assembly of patchy colloids. *Physical Review Letters*, **2012**, 109, 178302	7.4	21
119	Cluster crystals under shear. *Physical Review Letters*, **2011**, 107, 068302	7.4	21
118	Nonperturbative density functional theory of solid-to-solid isostructural transitions. *Journal of Physics Condensed Matter*, **1995**, 7, 6797-6808	1.8	21
117	Condensation and Demixing in Solutions of DNA Nanostars and Their Mixtures. *ACS Nano*, **2017**, 11, 2094-2102	14.7	20
116	Adsorption characteristics of amphiphilic dendrimers. *Soft Matter*, **2009**, 5, 2905	3.6	20
115	Computer simulations of polyelectrolyte stars and brushes. *Journal of Physics Condensed Matter*, **2008**, 20, 494221	1.8	20
114	Customizing wormlike mesoscale structures via self-assembly of amphiphilic star polymers. *Soft Matter*, **2015**, 11, 3530-5	3.6	19
113	Hydrodynamic inflation of ring polymers under shear. *Communications Materials*, **2020**, 1,	6	19
112	The influence of the magnetic filler concentration on the properties of a microgel particle: Zero-field case. *Journal of Magnetism and Magnetic Materials*, **2018**, 459, 226-230	2.8	19
111	Explicit vs Implicit Water Simulations of Charged Dendrimers. *Macromolecules*, **2012**, 45, 2562-2569	5.5	19
110	Computer simulations of colloidal particles under flow in microfluidic channels. *Soft Matter*, **2013**, 9, 2603	3.6	19
109	Hierarchical self-assembly of telechelic star polymers: from soft patchy particles to gels and diamond crystals. *New Journal of Physics*, **2013**, 15, 095002	2.9	19
108	Effective interactions between charged dendrimers. *Soft Matter*, **2011**, 7, 8419	3.6	19
107	Phonon dispersions of cluster crystals. *Journal of Physics Condensed Matter*, **2011**, 23, 234112	1.8	19
106	Crystal structures of two-dimensional binary mixtures of dipolar colloids in tilted external magnetic fields. *Journal of Physical Chemistry B*, **2009**, 113, 12316-25	3.4	19

105	Crystallization of magnetic dipolar monolayers: a density functional approach. *Journal of Physics Condensed Matter*, **2008**, 20, 404217	1.8	19
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102	Anisotropic effective interactions and stack formation in mixtures of semiflexible ring polymers. *Soft Matter*, **2016**, 12, 4805-20	3.6	19
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100	Topology-Sensitive Microfluidic Filter for Polymers of Varying Stiffness. *ACS Macro Letters*, **2017**, 6, 1426-1431	6.6	18
99	Glassy states in asymmetric mixtures of soft and hard colloids. *Physical Review Letters*, **2013**, 111, 208301	7.4	18
98	Density-functional theory of freezing of quantum liquids at zero temperature using exact liquid-state linear response. *Physical Review B*, **1997**, 55, 8867-8880	3.3	18
97	Rheological transitions in asymmetric colloidal star mixtures. *Rheologica Acta*, **2007**, 46, 611-619	2.3	18
96	Microscopic and coarse-grained correlation functions of concentrated dendrimer solutions. *Journal of Physics Condensed Matter*, **2005**, 17, S1777-S1797	1.8	18
95	Interactions between planar polyelectrolyte brushes: effects of stiffness and salt. *Soft Matter*, **2010**, 6, 163-171	3.6	17
94	Polyelectrolyte stars in planar confinement. *Journal of Chemical Physics*, **2006**, 124, 214904	3.9	17
93	Architecture-Induced Size Asymmetry and Effective Interactions of Ring Polymers: Simulation and Theory. *Macromolecules*, **2013**, 46, 9437-9445	5.5	16
92	Ring polymers are much stronger depleting agents than linear ones. *Molecular Physics*, **2018**, 116, 2911-2926	1.7	16
91	Hierarchical self-organization of soft patchy nanoparticles into morphologically diverse aggregates. *Current Opinion in Colloid and Interface Science*, **2017**, 30, 1-7	7.6	15
90	Cluster formation in star-linear polymer mixtures: equilibrium and dynamical properties. *Soft Matter*, **2012**, 8, 4177	3.6	15
89	Phase behaviour in binary mixtures of ultrasoft repulsive particles. *Europhysics Letters*, **2009**, 85, 26003	1.6	15
88	Colloid–dendrimer complexation. *Soft Matter*, **2009**, 5, 4542	3.6	15

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86	Phase transitions in colloidal suspensions and star polymer solutions. *Journal of Physics Condensed Matter*, **2000**, 12, A465-A469	1.8	15
85	Controlling the Interactions between Soft Colloids via Surface Adsorption. *Macromolecules*, **2013**, 46, 3648-3653	5.5	14
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79	Ordered equilibrium structures in soft matter systems between two and three dimensions. *Soft Matter*, **2009**, 5, 2852	3.6	13
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77	Spatial Demixing of Ring and Chain Polymers in Pressure-Driven Flow. *Macromolecules*, **2019**, 52, 7858-7869	5.5	12
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72	Effective interactions of knotted ring polymers. *Biochemical Society Transactions*, **2013**, 41, 630-4	5.1	11
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69	Correlations of two-dimensional super-paramagnetic colloids in tilted external magnetic fields. *Molecular Physics*, **2007**, 105, 1849-1860	1.7	11
68	Interactions and phase behaviour of polyelectrolyte star solutions. *Journal of Physics Condensed Matter*, **2003**, 15, S233-S238	1.8	11
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63	Effective Interactions between Multilayered Ionic Microgels. *Materials*, **2014**, 7, 7689-7705	3.5	10
62	Multiblob coarse-graining for mixtures of long polymers and soft colloids. *Journal of Chemical Physics*, **2016**, 145, 174901	3.9	10
61	Structure formation in soft nanocolloids: liquid-drop model. *Soft Matter*, **2018**, 14, 3063-3072	3.6	9
60	Star Block-Copolymers in Shear Flow. *Journal of Physical Chemistry B*, **2018**, 122, 4149-4158	3.4	9
59	Critical nuclei and crystallization in colloidal suspensions. *Philosophical Magazine Letters*, **2007**, 87, 847-854	1	9
58	Sedimentation profiles of systems with reentrant melting behavior. *Physical Review E*, **2001**, 64, 011405	2.4	9
57	Studying synthesis confinement effects on the internal structure of nanogels in computer simulations. *Journal of Molecular Liquids*, **2019**, 289, 111066	6	8
56	Scaling and Interactions of Linear and Ring Polymer Brushes via DPD Simulations. *Polymers*, **2019**, 11,	4.5	8
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49	Effect of attraction on the dynamical arrest of soft colloids. *Molecular Physics*, **2006**, 104, 3523-3534	1.7	7
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