Monica Olvera de la Cruz

List of Publications by Citations

330 papers	11,451 citations	54 h-index	91 g-index
348 ext. papers	12,778 ext. citations	7.5 avg, IF	6.74 L-index

#	Paper	IF	Citations
330	A self-assembly pathway to aligned monodomain gels. *Nature Materials*, **2010**, 9, 594-601	27	496
329	Precipitation of DNA by polyamines: a polyelectrolyte behavior. *Biophysical Journal*, **1998**, 74, 381-93	2.9	380
328	Controlling conformations of conjugated polymers and small molecules: the role of nonbonding interactions. *Journal of the American Chemical Society*, **2013**, 135, 10475-83	16.4	324
327	DNA-mediated nanoparticle crystallization into Wulff polyhedra. *Nature*, **2014**, 505, 73-7	50.4	319
326	Precipitation of highly charged polyelectrolyte solutions in the presence of multivalent salts. *Journal of Chemical Physics*, **1995**, 103, 5781-5791	3.9	287
325	Energy landscapes and functions of supramolecular systems. *Nature Materials*, **2016**, 15, 469-76	27	265
324	All-Polymer Solar Cell Performance Optimized via Systematic Molecular Weight Tuning of Both Donor and Acceptor Polymers. *Journal of the American Chemical Society*, **2016**, 138, 1240-51	16.4	237
323	Theory of microphase separation in graft and star copolymers. *Macromolecules*, **1986**, 19, 2501-2508	5.5	233
322	Electrostatic control of block copolymer morphology. *Nature Materials*, **2014**, 13, 694-8	27	195
321	Electrostatics at the nanoscale. *Nanoscale*, **2011**, 3, 1316-44	7.7	182
320	Collapse of flexible polyelectrolytes in multivalent salt solutions. *Journal of Chemical Physics*, **2000**, 112, 2030-2035	3.9	175
319	Tunable mechanics of peptide nanofiber gels. *Langmuir*, **2010**, 26, 3641-7	4	172
318	Molecular simulation study of peptide amphiphile self-assembly. *Journal of Physical Chemistry B*, **2008**, 112, 2326-34	3.4	172
317	Microphase separation in multiblock copolymer melts. *Journal of Chemical Physics*, **1989**, 91, 7228-7235	3.9	156
316	Conformational order in aggregates of conjugated polymers. *Journal of the American Chemical Society*, **2015**, 137, 6254-62	16.4	153
315	Random heteropolymers preserve protein function in foreign environments. *Science*, **2018**, 359, 1239-1243	33	126
314	Ion condensation in salt-free dilute polyelectrolyte solutions. *Journal of Chemical Physics*, **1995**, 103, 3145-3157	3.9	120

313	Phase Segregation in Gradient Copolymer Melts. *Macromolecules*, **2004**, 37, 1118-1123	5.5	111
312	Modeling the crystallization of spherical nucleic acid nanoparticle conjugates with molecular dynamics simulations. *Nano Letters*, **2012**, 12, 2509-14	11.5	108
311	Complexation of Oppositely Charged Polyelectrolytes:Effect of Ion Pair Formation. *Macromolecules*, **2004**, 37, 9231-9241	5.5	107
310	Molecular Theory of Weak Polyelectrolyte Gels: The Role of pH and Salt Concentration. *Macromolecules*, **2011**, 44, 147-158	5.5	105
309	Precipitation of oppositely charged polyelectrolytes in salt solutions. *Journal of Chemical Physics*, **2004**, 120, 404-12	3.9	105
308	Self-organization of grafted polyelectrolyte layers via the coupling of chemical equilibrium and physical interactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 5300-5	11.5	96
307	Concentration fluctuation effects on disorderorder transitions in block copolymer melts. *Journal of Chemical Physics*, **1991**, 95, 4670-4677	3.9	94
306	Supramolecular self-assembly codes for functional structures. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2007**, 365, 1417-33	3	90
305	Attractive interactions between rodlike polyelectrolytes: polarization, crystallization, and packing. *Physical Review E*, **1999**, 60, 4496-9	2.4	89
304	Flexible linear polyelectrolytes in multivalent salt solutions: Solubility conditions. *European Physical Journal E*, **2001**, 4, 143-152	1.5	88
303	Transitions to periodic structures in block copolymer melts. *Physical Review Letters*, **1991**, 67, 85-88	7.4	87
302	Covalent-supramolecular hybrid polymers as muscle-inspired anisotropic actuators. *Nature Communications*, **2018**, 9, 2395	17.4	80
301	Phase Separation of Ternary Mixtures: Symmetric Polymer Blends. *Macromolecules*, **1995**, 28, 7996-8005	5.5	80
300	Faceting ionic shells into icosahedra via electrostatics. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 18382-6	11.5	79
299	Effect of Ionon Correlations on Polyelectrolyte Gel Collapse and Reentrant Swelling. *Macromolecules*, **2013**, 46, 5053-5065	5.5	74
298	Study of volume phase transitions in polymeric nanogels by theoretically informed coarse-grained simulations. *Soft Matter*, **2011**, 7, 5965	3.6	74
297	Platonic and Archimedean geometries in multicomponent elastic membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 4292-6	11.5	71
296	What controls the hybridization thermodynamics of spherical nucleic acids?. *Journal of the American Chemical Society*, **2015**, 137, 3486-9	16.4	69

295	Mechanical model of blebbing in nuclear lamin meshworks. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 3248-53	11.5	69
294	Mesoscale molecular network formation in amorphous organic materials. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10055-60	11.5	66
293	A Quantitative Description of the Binding Equilibria of para-Substituted Aniline Ligands and CdSe Quantum Dots. *Journal of Physical Chemistry C*, **2010**, 114, 22526-22534	3.8	66
292	Simulation of charged systems in heterogeneous dielectric media via a true energy functional. *Physical Review Letters*, **2012**, 109, 223905	7.4	65
291	Theory of microphase separation in block copolymer solutions. *Journal of Chemical Physics*, **1989**, 90, 1995-2002	3.9	65
290	Buckled membranes in mixed-valence ionic amphiphile vesicles. *Journal of the American Chemical Society*, **2009**, 131, 12030-1	16.4	64
289	Particle analogs of electrons in colloidal crystals. *Science*, **2019**, 364, 1174-1178	33.3	62
288	Tunable soft structure in charged fluids confined by dielectric interfaces. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 5301-8	11.5	62
287	Co-assembly of Peptide Amphiphiles and Lipids into Supramolecular Nanostructures Driven by Anion-□Interactions. *Journal of the American Chemical Society*, **2017**, 139, 7823-7830	16.4	60
286	Effects of the ionic size-asymmetry around a charged nanoparticle: unequal charge neutralization and electrostatic screening. *Soft Matter*, **2010**, 6, 2056	3.6	60
285	Concentration fluctuations in polymer blend thermodynamics. *Journal of Chemical Physics*, **1988**, 89, 1704-1708	3.9	60
284	Swelling and collapse of polyelectrolyte gels in equilibrium with monovalent and divalent electrolyte solutions. *Journal of Chemical Physics*, **2009**, 131, 194907	3.9	59
283	Programming Colloidal Crystal Habit with Anisotropic Nanoparticle Building Blocks and DNA Bonds. *Journal of the American Chemical Society*, **2016**, 138, 14562-14565	16.4	58
282	Polynucleotide adsorption to negatively charged surfaces in divalent salt solutions. *Biophysical Journal*, **2006**, 90, 1164-74	2.9	57
281	Encapsulated drop breakup in shear flow. *Physical Review Letters*, **2004**, 93, 204501	7.4	57
280	A Modified Random Phase Approximation of Polyelectrolyte Solutions. *Macromolecules*, **2003**, 36, 7824-7832	5.5	57
279	Fast and programmable locomotion of hydrogel-metal hybrids under light and magnetic fields. *Science Robotics*, **2020**, 5,	18.6	55
278	Variational Approach to Necklace Formation in Polyelectrolytes. *Macromolecules*, **1998**, 31, 5502-5506	5.5	55

277	How Hydrogen Bonds Affect the Growth of Reverse Micelles around Coordinating Metal Ions. *Journal of Physical Chemistry Letters*, **2014**, 5, 1440-4	6.4	54
276	Charge induced pattern formation on surfaces: segregation in cylindrical micelles of cationic-anionic peptide-amphiphiles. *Journal of Chemical Physics*, **2005**, 122, 54905	3.9	54
275	Enhanced Binding of SARS-CoV-2 Spike Protein to Receptor by Distal Polybasic Cleavage Sites. *ACS Nano*, **2020**, 14, 10616-10623	16.7	54
274	Theory of melt polyelectrolyte blends and block copolymers: phase behavior, surface tension, and microphase periodicity. *Journal of Chemical Physics*, **2015**, 142, 034902	3.9	51
273	Photoactive Blend Morphology Engineering through Systematically Tuning Aggregation in All-Polymer Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1702173	21.8	50
272	Thermally active hybridization drives the crystallization of DNA-functionalized nanoparticles. *Journal of the American Chemical Society*, **2013**, 135, 8535-41	16.4	50
271	Transition to lamellar-catenoid structure in block-copolymer melts. *Macromolecules*, **1992**, 25, 944-948	5.5	50
270	Dynamics of gel electrophoresis. *Macromolecules*, **1989**, 22, 1351-1355	5.5	50
269	Polyelectrolytes in the presence of multivalent ions: gelation versus segregation. *Physical Review Letters*, **2003**, 90, 125504	7.4	49
268	Electrophoresis in strong fields. *Physical Review A*, **1986**, 33, 2047-2055	2.6	49
267	Shape-Directed Microspinners Powered by Ultrasound. *ACS Nano*, **2018**, 12, 2939-2947	16.7	45
266	Molecular theory of weak polyelectrolyte thin films. *Soft Matter*, **2012**, 8, 1344-1354	3.6	45
265	Dynamic self-assembly of photo-switchable nanoparticles. *Soft Matter*, **2012**, 8, 227-234	3.6	45
264	Multiple-binding-site mechanism explains concentration-dependent unbinding rates of DNA-binding proteins. *Nucleic Acids Research*, **2014**, 42, 3783-91	20.1	44
263	Polyelectrolytes in Multivalent Salt Solutions: Monomolecular versus Multimolecular Aggregation. *Macromolecules*, **2002**, 35, 976-986	5.5	44
262	Cylindrical versus spherical micelle formation in block copolymer/homopolymer blends. *Macromolecules*, **1988**, 21, 2543-2547	5.5	44
261	Water Dynamics from the Surface to the Interior of a Supramolecular Nanostructure. *Journal of the American Chemical Society*, **2017**, 139, 8915-8921	16.4	43
260	Polyelectrolyte Blends and Nontrivial Behavior in Effective Flory-Huggins Parameters.. *ACS Macro Letters*, **2014**, 3, 698-702	6.6	43

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258	Interfacial behavior in polyelectrolyte blends: hybrid liquid-state integral equation and self-consistent field theory study. *Physical Review Letters*, **2013**, 111, 168303	7.4	43
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256	Local Ionic Environment around Polyvalent Nucleic Acid-Functionalized Nanoparticles. *Journal of Physical Chemistry C*, **2011**, 115, 16368-16373	3.8	42
255	Modulating Nanoparticle Superlattice Structure Using Proteins with Tunable Bond Distributions. *Journal of the American Chemical Society*, **2017**, 139, 1754-1757	16.4	41
254	Facilitated dissociation of transcription factors from single DNA binding sites. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E3251-E3257	11.5	41
253	Ion Correlation-Induced Phase Separation in Polyelectrolyte Blends.. *ACS Macro Letters*, **2013**, 2, 1042-1046	6	41
252	Phase Diagrams of Salt-Free Polyelectrolyte Semidilute Solutions. *Macromolecules*, **2000**, 33, 7649-7654	5.5	41
251	Exploring the zone of anisotropy and broken symmetries in DNA-mediated nanoparticle crystallization. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 10485-90	11.5	41
250	Molecular Origins of Mesoscale Ordering in a Metalloamphiphile Phase. *ACS Central Science*, **2015**, 1, 493-503	16.8	39
249	Elastic Strain Energy Effects in Faceted Decahedral Nanoparticles. *Journal of Physical Chemistry C*, **2013**, 117, 1485-1494	3.8	39
248	Charged particles on surfaces: coexistence of dilute phases and periodic structures at interfaces. *Physical Review Letters*, **2007**, 98, 237802	7.4	39
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246	A variational formulation of electrostatics in a medium with spatially varying dielectric permittivity. *Journal of Chemical Physics*, **2013**, 138, 054119	3.9	37
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244	Ionic structure in liquids confined by dielectric interfaces. *Journal of Chemical Physics*, **2015**, 143, 194508	3.9	36
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242	DNA-Segment-Facilitated Dissociation of Fis and NHP6A from DNA Detected via Single-Molecule Mechanical Response. *Journal of Molecular Biology*, **2015**, 427, 3123-36	6.5	35

241	Buckling of multicomponent elastic shells with line tension. *Soft Matter*, **2012**, 8, 636-644	3.6	35
240	Strong attractions and repulsions mediated by monovalent salts. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11838-11843	11.5	34
239	Potential of mean force between identical charged nanoparticles immersed in a size-asymmetric monovalent electrolyte. *Journal of Chemical Physics*, **2011**, 135, 164705	3.9	33
238	Random phase approximation for complex charged systems: Application to copolyelectrolytes (polyampholytes). *Journal of Chemical Physics*, **1994**, 100, 507-517	3.9	33
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235	Insights into the Enhanced Catalytic Activity of Cytochrome c When Encapsulated in a Metal-Organic Framework. *Journal of the American Chemical Society*, **2020**, 142, 18576-18582	16.4	32
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233	Ionic Conductivity in Polyelectrolyte Hydrogels. *Macromolecules*, **2016**, 49, 9239-9246	5.5	31
232	Thermodynamic Analysis of Multiply Twinned Particles: Surface Stress Effects. *Journal of Physical Chemistry Letters*, **2013**, 4, 3089-3094	6.4	31
231	A practical integral equation for the structure and thermodynamics of hard sphere Coulomb fluids. *Journal of Chemical Physics*, **2011**, 135, 064106	3.9	31
230	Entropic effects in the electric double layer of model colloids with size-asymmetric monovalent ions. *Journal of Chemical Physics*, **2011**, 135, 054701	3.9	31
229	Crystalline polymorphism induced by charge regulation in ionic membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 16309-14	11.5	30
228	Electrostatic control of self-organization: the role of charge gradients in heterogeneous media. *Soft Matter*, **2008**, 4, 1735	3.6	30
227	Direct observation of cations and polynucleotides explains polyion adsorption to like-charged surfaces. *Journal of Physical Chemistry B*, **2005**, 109, 23001-7	3.4	30
226	Thermoreversible crosslinking of polyelectrolyte chains. *Journal of Chemical Physics*, **2004**, 120, 11930-40	3.9	30
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223	Driving Force for Water Permeation Across Lipid Membranes. *Journal of Physical Chemistry Letters*, **2013**, 4, 3233-3237	6.4	29
222	Large counterions boost the solubility and renormalized charge of suspended nanoparticles. *ACS Nano*, **2013**, 7, 9714-23	16.7	29
221	pH-controlled nanoaggregation in amphiphilic polymer co-networks. *ACS Nano*, **2013**, 7, 2693-704	16.7	29
220	Electrostatic-Driven Ridge Formation on Nanoparticles Coated with Charged End-Group Ligands. *Journal of Physical Chemistry C*, **2011**, 115, 6484-6490	3.8	29
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218	Adsorption of a minority component in polymer blend interfaces. *Physical Review E*, **1996**, 53, 812-819	2.4	29
217	Random copolymers in concentrated solutions. *Europhysics Letters*, **1996**, 35, 487-492	1.6	28
216	Single-chain heteropolymers transport protons selectively and rapidly. *Nature*, **2020**, 577, 216-220	50.4	28
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213	Electrostatic Control of Polymorphism in Charged Amphiphile Assemblies. *Journal of Physical Chemistry B*, **2017**, 121, 1623-1628	3.4	27
212	Self-Assembly of Charge-Containing Copolymers at the Liquid-Liquid Interface. *ACS Central Science*, **2019**, 5, 688-699	16.8	27
211	Entropy-Driven Crystallization Behavior in DNA-Mediated Nanoparticle Assembly. *Nano Letters*, **2015**, 15, 5545-51	11.5	27
210	Effective charges and virial pressure of concentrated macroion solutions. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 9242-6	11.5	27
209	Altering DNA-Programmable Colloidal Crystallization Paths by Modulating Particle Repulsion. *Nano Letters*, **2017**, 17, 5126-5132	11.5	27
208	Understanding swollen–collapsed and re-entrant transitions in polyelectrolyte nanogels by a modified Donnan theory. *Soft Matter*, **2012**, 8, 9519	3.6	27
207	Nematic liquid crystals on spherical surfaces: control of defect configurations by temperature, density, and rod shape. *Physical Review E*, **2012**, 86, 011709	2.4	27
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204	Nonlinear Effects in the Nanophase Segregation of Polyelectrolyte Gels. *Macromolecules*, **2009**, 42, 6284-6289	5.5	26
203	Competing interactions in two dimensional Coulomb systems: surface charge heterogeneities in coassembled cationic-anionic incompatible mixtures. *Journal of Chemical Physics*, **2006**, 124, 144702	3.9	26
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198	Kirigami nanofluidics. *Materials Chemistry Frontiers*, **2018**, 2, 475-482	7.8	24
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196	Electrostatic control of nanoscale phase behavior of polyelectrolyte networks. *Current Opinion in Solid State and Materials Science*, **2011**, 15, 271-276	12	24
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193	Non-monotonic swelling of surface grafted hydrogels induced by pH and/or salt concentration. *Journal of Chemical Physics*, **2014**, 141, 124909	3.9	23
192	Association in electrolyte solutions: Rodlike polyelectrolytes in multivalent salts. *Journal of Chemical Physics*, **2003**, 118, 4684-4691	3.9	23
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190	An exact method to obtain effective electrostatic interactions from computer simulations: the case of effective charge amplification. *Journal of Chemical Physics*, **2013**, 139, 064709	3.9	22
189	Topological defects in flat geometry: the role of density inhomogeneity. *Physical Review Letters*, **2013**, 111, 115503	7.4	22
188	Inversion of the Electric Field at the Electrified Liquid-Liquid Interface. *Journal of Chemical Theory and Computation*, **2013**, 9, 1-7	6.4	22

187	Excluded volume and ion-ion correlation effects on the ionic atmosphere around B-DNA: theory, simulations, and experiments. *Journal of Chemical Physics*, **2014**, 141, 225103	3.9	22
186	Enhancing and reversing the electric field at the oil water interface with size-asymmetric monovalent ions. *Soft Matter*, **2013**, 9, 6046	3.6	22
185	Growth dynamics for DNA-guided nanoparticle crystallization. *ACS Nano*, **2013**, 7, 10948-59	16.7	22
184	Equilibrium domain spacing in weakly segregated block copolymers. *Macromolecules*, **1991**, 24, 3975-3976	5.5	22
183	Energy Conversion in Polyelectrolyte Hydrogels. *ACS Macro Letters*, **2015**, 4, 857-861	6.6	21
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181	Gelation in strongly charged polyelectrolytes. *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 766-776	2.6	21
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176	Counterion distribution surrounding spherical nucleic acid-Au nanoparticle conjugates probed by small-angle x-ray scattering. *ACS Nano*, **2013**, 7, 11301-9	16.7	20
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174	Cluster Formation by Charged Nanoparticles on a Surface in Aqueous Solution. *Journal of Physical Chemistry C*, **2010**, 114, 3754-3762	3.8	20
173	Molecular multivalent electrolytes: microstructure and screening lengths. *European Physical Journal E*, **2005**, 16, 167-78	1.5	20
172	Defining the Structure of a Protein-Spherical Nucleic Acid Conjugate and Its Counterionic Cloud. *ACS Central Science*, **2018**, 4, 378-386	16.8	19
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164	Interfacial adsorption in ternary alloys. *Acta Materialia*, **1999**, 47, 4449-4459	8.4	18
163	Dynamics of DNA during pulsed-field gel electrophoresis. *Physical Review Letters*, **1990**, 64, 2324-2327	7.4	18
162	Theoretical Analysis of Multiple Phase Coexistence in Polyelectrolyte Blends. *Macromolecules*, **2015**, 48, 6008-6015	5.5	17
161	Chromophore amphiphile–polyelectrolyte hybrid hydrogels for photocatalytic hydrogen production. *Journal of Materials Chemistry A*, **2020**, 8, 158-168	13	17
160	The Importance of Salt-Enhanced Electrostatic Repulsion in Colloidal Crystal Engineering with DNA. *ACS Central Science*, **2019**, 5, 186-191	16.8	17
159	Actuation of magnetoelastic membranes in precessing magnetic fields. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 2500-2505	11.5	16
158	Demixing by a Nematic Mean Field: Coarse-Grained Simulations of Liquid Crystalline Polymers. *Polymers*, **2017**, 9,	4.5	16
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156	Driving force for crystallization of anionic lipid membranes revealed by atomistic simulations. *Journal of Physical Chemistry B*, **2013**, 117, 5073-80	3.4	16
155	Electrostatic-driven pattern formation in fibers, nanotubes and pores. *Soft Matter*, **2011**, 7, 1456	3.6	16
154	Charged Micelles in Salt-Free Dilute Solutions. *Macromolecules*, **1997**, 30, 8019-8026	5.5	16
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151	Controlling swelling/deswelling of stimuli-responsive hydrogel nanofilms in electric fields. *Soft Matter*, **2016**, 12, 8359-8366	3.6	15
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147	Surface Polarization Effects on Ion-Containing Emulsions. *Physical Review Letters*, **2017**, 119, 138002	7.4	14
146	Impact of charge switching stimuli on supramolecular perylene monoimide assemblies. *Chemical Science*, **2019**, 10, 5779-5786	9.4	14
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