Byeongdu Lee

List of Publications by Citations

289 papers	15,259 citations	61 h-index	113 g-index
304 ext. papers	16,881 ext. citations	9.7 avg, IF	6.57 L-index

#	Paper	IF	Citations
289	DNA-programmable nanoparticle crystallization. *Nature*, **2008**, 451, 553-6	50.4	1297
288	Nanoparticle superlattice engineering with DNA. *Science*, **2011**, 334, 204-8	33.3	876
287	Increased silver activity for direct propylene epoxidation via subnanometer size effects. *Science*, **2010**, 328, 224-8	33.3	665
286	DNA-nanoparticle superlattices formed from anisotropic building blocks. *Nature Materials*, **2010**, 9, 913-7	27	536
285	Small Angle X-ray Scattering for Nanoparticle Research. *Chemical Reviews*, **2016**, 116, 11128-80	68.1	477
284	Self-assembly of self-limiting monodisperse supraparticles from polydisperse nanoparticles. *Nature Nanotechnology*, **2011**, 6, 580-7	28.7	429
283	Structural Analysis of Block Copolymer Thin Films with Grazing Incidence Small-Angle X-ray Scattering. *Macromolecules*, **2005**, 38, 4311-4323	5.5	338
282	When function follows form: Effects of donor copolymer side chains on film morphology and BHJ solar cell performance. *Advanced Materials*, **2010**, 22, 5468-72	24	306
281	Ultralow-k nanoporous organosilicate dielectric films imprinted with dendritic spheres. *Nature Materials*, **2005**, 4, 147-51	27	234
280	Selective propene epoxidation on immobilized au(6-10) clusters: the effect of hydrogen and water on activity and selectivity. *Angewandte Chemie - International Edition*, **2009**, 48, 1467-71	16.4	224
279	Heterogeneous nucleation and shape transformation of multicomponent metallic nanostructures. *Nature Materials*, **2015**, 14, 215-23	27	155
278	Assessment of Anisotropic Semiconductor Nanorod and Nanoplatelet Heterostructures with Polarized Emission for Liquid Crystal Display Technology. *ACS Nano*, **2016**, 10, 5769-81	16.7	154
277	Building superlattices from individual nanoparticles via template-confined DNA-mediated assembly. *Science*, **2018**, 359, 669-672	33.3	145
276	Controlled growth of platinum nanoparticles on strontium titanate nanocubes by atomic layer deposition. *Small*, **2009**, 5, 750-7	11	145
275	The role of order, nanocrystal size, and capping ligands in the collective mechanical response of three-dimensional nanocrystal solids. *Journal of the American Chemical Society*, **2010**, 132, 8953-60	16.4	143
274	Structure, dynamics, and power conversion efficiency correlations in a new low bandgap polymer: PCBM solar cell. *Journal of Physical Chemistry B*, **2010**, 114, 742-8	3.4	138
273	Anisotropic nanoparticle complementarity in DNA-mediated co-crystallization. *Nature Materials*, **2015**, 14, 833-9	27	134

272	Using DNA to design plasmonic metamaterials with tunable optical properties. *Advanced Materials*, **2014**, 26, 653-9	24	133
271	Establishing the design rules for DNA-mediated programmable colloidal crystallization. *Angewandte Chemie - International Edition*, **2010**, 49, 4589-92	16.4	130
270	Current status of the synchrotron small-angle X-ray scattering Station BL4C1 at the Pohang Accelerator Laboratory. *Macromolecular Research*, **2002**, 10, 2-12	1.9	125
269	Capping ligands as selectivity switchers in hydrogenation reactions. *Nano Letters*, **2012**, 12, 5382-8	11.5	124
268	Topotactic interconversion of nanoparticle superlattices. *Science*, **2013**, 341, 1222-5	33.3	123
267	Molecular recognition and self-assembly special feature: Assembly and organization processes in DNA-directed colloidal crystallization. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 10493-8	11.5	122
266	Size-dependent multiple twinning in nanocrystal superlattices. *Journal of the American Chemical Society*, **2010**, 132, 289-96	16.4	120
265	Assembly of reconfigurable one-dimensional colloidal superlattices due to a synergy of fundamental nanoscale forces. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 2240-5	11.5	119
264	In-Situ Grazing Incidence Small-Angle X-ray Scattering Studies on Nanopore Evolution in Low-k Organosilicate Dielectric Thin Films. *Macromolecules*, **2005**, 38, 3395-3405	5.5	119
263	Stable colloids in molten inorganic salts. *Nature*, **2017**, 542, 328-331	50.4	107
262	Controlling the lattice parameters of gold nanoparticle FCC crystals with duplex DNA linkers. *Nano Letters*, **2008**, 8, 2341-4	11.5	106
261	Colloidal nanoparticle size control: experimental and kinetic modeling investigation of the ligand-metal binding role in controlling the nucleation and growth kinetics. *Nanoscale*, **2017**, 9, 13772-13785	7.7	104
260	Improving brush polymer infrared one-dimensional photonic crystals via linear polymer additives. *Journal of the American Chemical Society*, **2014**, 136, 17374-7	16.4	103
259	Comparison of the sputter rates of oxide films relative to the sputter rate of SiO2. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2010**, 28, 1060-1072	2.9	103
258	Size-dependent selectivity and activity of silver nanoclusters in the partial oxidation of propylene to propylene oxide and acrolein: A joint experimental and theoretical study. *Catalysis Today*, **2011**, 160, 116-130	5.3	102
257	Directed assembly of high molecular weight block copolymers: highly ordered line patterns of perpendicularly oriented lamellae with large periods. *ACS Nano*, **2013**, 7, 1952-60	16.7	101
256	Imprinting Well-Controlled Nanopores in Organosilicate Dielectric Films: Triethoxysilyl-Modified Six-Armed Poly(?-caprolactone) and Its Chemical Hybridization with an Organosilicate Precursor. *Advanced Materials*, **2005**, 17, 696-701	24	101
255	Oxidative Dehydrogenation of Cyclohexane on Cobalt Oxide (Co3O4) Nanoparticles: The Effect of Particle Size on Activity and Selectivity. *ACS Catalysis*, **2012**, 2, 2409-2423	13.1	98

254	Characteristics of high-k Al2O3 dielectric using ozone-based atomic layer deposition for dual-gated graphene devices. *Applied Physics Letters*, **2010**, 97, 043107	3.4	98
253	Surface Morphology, Molecular Reorientation, and Liquid Crystal Alignment Properties of Rubbed Nanofilms of a Well-Defined Brush Polyimide with a Fully Rodlike Backbone. *Macromolecules*, **2002**, 35, 10119-10130	5.5	92
252	Self-assembly of tobacco mosaic virus at oil/water interfaces. *Langmuir*, **2009**, 25, 4979-87	4	91
251	Assembly of tobacco mosaic virus into fibrous and macroscopic bundled arrays mediated by surface aniline polymerization. *Langmuir*, **2007**, 23, 6719-24	4	90
250	Photoreactions and Photoinduced Molecular Orientations of Films of a Photoreactive Polyimide and Their Alignment of Liquid Crystals. *Macromolecules*, **2003**, 36, 6527-6536	5.5	82
249	Origin of Broad Emission Spectra in InP Quantum Dots: Contributions from Structural and Electronic Disorder. *Journal of the American Chemical Society*, **2018**, 140, 15791-15803	16.4	81
248	Stepwise evolution of DNA-programmable nanoparticle superlattices. *Angewandte Chemie - International Edition*, **2013**, 52, 6624-8	16.4	80
247	A directional entropic force approach to assemble anisotropic nanoparticles into superlattices. *Angewandte Chemie - International Edition*, **2013**, 52, 13980-4	16.4	80
246	Design, Synthesis, and Self-Assembly of Polymers with Tailored Graft Distributions. *Journal of the American Chemical Society*, **2017**, 139, 17683-17693	16.4	79
245	3D Hexagonal (R-3m) Mesostructured Nanocrystalline Titania Thin Films: Synthesis and Characterization. *Advanced Functional Materials*, **2006**, 16, 1731-1738	15.6	73
244	Effects of Grafting Density on Block Polymer Self-Assembly: From Linear to Bottlebrush. *ACS Nano*, **2017**, 11, 11632-11641	16.7	72
243	Epitaxial Phase Transition of Polystyrene-b-Polyisoprene from Hexagonally Perforated Layer to Gyroid Phase in Thin Film. *Macromolecules*, **2005**, 38, 10532-10536	5.5	70
242	Reactivity of supported platinum nanoclusters studied by in situ GISAXS: clusters stability under hydrogen. *Topics in Catalysis*, **2006**, 39, 145-149	2.3	70
241	Reaction Mechanism for Direct Propylene Epoxidation by Alumina-Supported Silver Aggregates: The Role of the Particle/Support Interface. *ACS Catalysis*, **2014**, 4, 32-39	13.1	69
240	Exploring the programmable assembly of a polyoxometalate-organic hybrid via metal ion coordination. *Journal of the American Chemical Society*, **2013**, 135, 13425-32	16.4	68
239	Small-angle x-ray scattering station 4C2 BL of pohang accelerator laboratory for advance in Korean polymer science. *Macromolecular Research*, **2008**, 16, 575-585	1.9	68
238	Oxidative Decomposition of Methanol on Subnanometer Palladium Clusters: The Effect of Catalyst Size and Support Composition. *Journal of Physical Chemistry C*, **2010**, 114, 10342-10348	3.8	67
237	Growth of metal oxide nanowires from supercooled liquid nanodroplets. *Nano Letters*, **2009**, 9, 4138-46	11.5	67

236	Supported gold clusters and cluster-based nanomaterials: characterization, stability and growth studies by in situ GISAXS under vacuum conditions and in the presence of hydrogen. *Topics in Catalysis*, **2006**, 39, 161-166	2.3	67
235	Relationship between interchain interaction, exciton delocalization, and charge separation in low-bandgap copolymer blends. *Journal of the American Chemical Society*, **2014**, 136, 10024-32	16.4	66
234	High-pressure structural stability and elasticity of supercrystals self-assembled from nanocrystals. *Nano Letters*, **2011**, 11, 579-88	11.5	65
233	In situ determination of interfacial energies between heterogeneously nucleated CaCO3 and quartz substrates: thermodynamics of CO2 mineral trapping. *Environmental Science & Technology*, **2013**, 47, 102-9	10.3	64
232	Modular Self-Assembly of Protein Cage Lattices for Multistep Catalysis. *ACS Nano*, **2018**, 12, 942-953	16.7	63
231	Particle analogs of electrons in colloidal crystals. *Science*, **2019**, 364, 1174-1178	33.3	62
230	Simple, readily controllable palladium nanoparticle formation on surface-assembled viral nanotemplates. *Langmuir*, **2010**, 26, 3670-7	4	62
229	Nanoscale Structure and Morphology of Atomic Layer Deposition Platinum on SrTiO3 (001). *Chemistry of Materials*, **2009**, 21, 516-521	9.6	62
228	Conjugated Ladder Polymers by a Cyclopentannulation Polymerization. *Journal of the American Chemical Society*, **2017**, 139, 5801-5807	16.4	61
227	Tunable structural color of bottlebrush block copolymers through direct-write 3D printing from solution. *Science Advances*, **2020**, 6, eaaz7202	14.3	61
226	Sequential Infiltration Synthesis for the Design of Low Refractive Index Surface Coatings with Controllable Thickness. *ACS Nano*, **2017**, 11, 2521-2530	16.7	59
225	Interfacial assembly of turnip yellow mosaic virus nanoparticles. *Langmuir*, **2009**, 25, 5168-76	4	59
224	Time-Resolved Synchrotron X-ray Diffraction and Infrared Spectroscopic Studies of Imidization and Structural Evolution in a Microscaled Film of PMDA-3,4□ODA Poly(amic acid). *Langmuir*, **2001**, 17, 7842-7850	4	59
223	In situ observations of nanoparticle early development kinetics at mineral-water interfaces. *Environmental Science & Technology*, **2010**, 44, 8182-9	10.3	58
222	Rubbing-Induced Surface Morphology and Polymer Segmental Reorientations of a Model Brush Polyimide and Interactions with Liquid Crystals at the Surface. *Chemistry of Materials*, **2003**, 15, 3105-3112	9.6	58
221	Light-triggered thermal conductivity switching in azobenzene polymers. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 5973-5978	11.5	56
220	Advanced smart-photosensitizers for more effective cancer treatment. *Biomaterials Science*, **2017**, 6, 79-90	7.4	56
219	In situ optical and structural studies on photoluminesence quenching in CdSe/CdS/Au heterostructures. *Journal of the American Chemical Society*, **2014**, 136, 2342-50	16.4	56

218	Comparison of structural behavior of nanocrystals in randomly packed films and long-range ordered superlattices by time-resolved small angle X-ray scattering. *Journal of the American Chemical Society*, **2009**, 131, 16386-8	16.4	56
217	Thermal Stability of Supported Platinum Clusters Studied by in Situ GISAXS. *Journal of Physical Chemistry B*, **2004**, 108, 18105-18107	3.4	55
216	Secondary Crystallization Behavior of Poly(ethylene isophthalate-co-terephthalate): Time-Resolved Small-Angle X-ray Scattering and Calorimetry Studies. *Macromolecules*, **2004**, 37, 4174-4184	5.5	55
215	Time-resolved X-ray scattering and calorimetric studies on the crystallization behaviors of poly(ethylene terephthalate) (PET) and its copolymers containing isophthalate units. *Polymer*, **2003**, 44, 2509-2518	3.9	55
214	Scattering Studies of Nanoporous Organosilicate Thin Films Imprinted with Reactive Star Porogens. *Macromolecules*, **2005**, 38, 8991-8995	5.5	54
213	Investigation on the catalytic reduction kinetics of hexavalent chromium by viral-templated palladium nanocatalysts. *Catalysis Today*, **2014**, 233, 108-116	5.3	53
212	Enhancement of local piezoresponse in polymer ferroelectrics via nanoscale control of microstructure. *ACS Nano*, **2015**, 9, 1809-19	16.7	53
211	Electropolymerization of a Bifunctional Ionic Liquid Monomer Yields an Electroactive Liquid-Crystalline Polymer. *Advanced Functional Materials*, **2010**, 20, 2063-2070	15.6	53
210	Effect of Molecular Properties of Block Copolymers and Nanoparticles on the Morphology of Self-Assembled Bulk Nanocomposites. *Macromolecules*, **2007**, 40, 8302-8310	5.5	53
209	The role of confined collagen geometry in decreasing nucleation energy barriers to intrafibrillar mineralization. *Nature Communications*, **2018**, 9, 962	17.4	52
208	Intermolecular Structural Change for Thermoswitchable Polymeric Photosensitizer. *Journal of the American Chemical Society*, **2016**, 138, 10734-7	16.4	52
207	Viral-templated palladium nanocatalysts for Suzuki coupling reaction. *Journal of Materials Chemistry*, **2011**, 21, 187-194		52
206	Role of the n-Alkyl End of Bristles in Governing Liquid Crystal Alignment at Rubbed Films of Brush Polymer Rods. *Macromolecules*, **2005**, 38, 4331-4338	5.5	52
205	A Soluble Photoreactive Polyimide Bearing the Coumarin Chromophore in the Side Group: Photoreaction, Photoinduced Molecular Reorientation, and Liquid-Crystal Alignability in Thin Films. *Langmuir*, **2003**, 19, 10381-10389	4	52
204	Simultaneous measurement of X-ray small angle scattering, absorption and reactivity: A continuous flow catalysis reactor. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2011**, 649, 200-203	1.2	49
203	Closed-Packed Colloidal Assemblies from Icosahedral Plant Virus and Polymer. *Chemistry of Materials*, **2009**, 21, 1046-1050	9.6	49
202	Environmentally abundant anions influence the nucleation, growth, Ostwald ripening, and aggregation of hydrous Fe(III) oxides. *Langmuir*, **2012**, 28, 7737-46	4	48
201	Nondestructive quantitative synchrotron grazing incidence X-ray scattering analysis of cylindrical nanostructures in supported thin films. *Journal of Applied Crystallography*, **2007**, 40, 305-312	3.8	48

200	Viral templated palladium nanocatalysts for dichromate reduction. *Applied Catalysis B: Environmental*, **2010**, 93, 282-291	21.8	46
199	Anomalous grazing incidence small-angle x-ray scattering studies of platinum nanoparticles formed by cluster deposition. *Journal of Chemical Physics*, **2005**, 123, 074701	3.9	46
198	Importance of the DNA "bond" in programmable nanoparticle crystallization. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 14995-5000	11.5	44
197	Electron density mapping of triblock copolymers associated with model biomembranes: insights into conformational states and effect on bilayer structure. *Biomacromolecules*, **2008**, 9, 1541-50	6.9	44
196	Effect of Molecular Weight on the Surface Morphology, Molecular Reorientation, and Liquid Crystal Alignment Properties of Rubbed Polystyrene Films. *Macromolecules*, **2003**, 36, 9905-9916	5.5	44
195	Manipulating the ABCs of self-assembly via low-[illegible]block polymer design. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 6462-6467	11.5	43
194	New Clues to the Factors Governing the Perpendicular Alignment of Liquid Crystals on Rubbed Polystyrene Film Surfaces. *Langmuir*, **2003**, 19, 8735-8743	4	43
193	Control of heterogeneous Fe(III) (hydr)oxide nucleation and growth by interfacial energies and local saturations. *Environmental Science & Technology*, **2013**, 47, 9198-206	10.3	42
192	Modulating Nanoparticle Superlattice Structure Using Proteins with Tunable Bond Distributions. *Journal of the American Chemical Society*, **2017**, 139, 1754-1757	16.4	41
191	The role of nanoparticle size and ligand coverage in size focusing of colloidal metal nanoparticles. *Nanoscale Advances*, **2019**, 1, 4052-4066	5.1	41
190	Tunable Oleo-Furan Surfactants by Acylation of Renewable Furans. *ACS Central Science*, **2016**, 2, 820-824	16.8	41
189	Combined temperature-programmed reaction and in situ x-ray scattering studies of size-selected silver clusters under realistic reaction conditions in the epoxidation of propene. *Journal of Chemical Physics*, **2009**, 131, 121104	3.9	41
188	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
187	Imprinting of nanopores in organosilicate dielectric thin films with hyperbranched ketalized polyglycidol. *Polymer*, **2005**, 46, 7394-7402	3.9	40
186	Poly(ethylene-co-ethyleneoxyethylene terephthalate)s: synthesis and non-isothermal crystallization behavior. *Macromolecular Chemistry and Physics*, **2000**, 201, 453-463	2.6	39
185	DNA-Encoded Protein Janus Nanoparticles. *Journal of the American Chemical Society*, **2018**, 140, 9269-9274	16.4	38
184	Interfacial energies for heterogeneous nucleation of calcium carbonate on mica and quartz. *Environmental Science & Technology*, **2014**, 48, 5745-53	10.3	38
183	Biomolecular assembly of thermoresponsive superlattices of the tobacco mosaic virus with large tunable interparticle distances. *Angewandte Chemie - International Edition*, **2013**, 52, 6638-42	16.4	38

182	The effect of graphite surface condition on the composition of Al2O3 by atomic layer deposition. *Applied Physics Letters*, **2010**, 97, 082901	3.4	38
181	Selective Propene Epoxidation on Immobilized Au6□10 Clusters: The Effect of Hydrogen and Water on Activity and Selectivity. *Angewandte Chemie*, **2009**, 121, 1495-1499	3.6	38
180	Templated Assembly of a Functional Ordered Protein Macromolecular Framework from P22 Virus-like Particles. *ACS Nano*, **2018**, 12, 3541-3550	16.7	37
179	Conduction Band Fine Structure in Colloidal HgTe Quantum Dots. *ACS Nano*, **2018**, 12, 9397-9404	16.7	37
178	Combined TPRx, in situ GISAXS and GIXAS studies of model semiconductor-supported platinum catalysts in the hydrogenation of ethene. *Physical Chemistry Chemical Physics*, **2010**, 12, 5585-95	3.6	36
177	Sequence of the Rubbing-Induced Reorientations of Polymer Chain Segments in Nanofilms of a Well-Defined Brush Polyimide with a Fully Rodlike Backbone As Determined by Polarized FTIR Spectroscopy and Two-Dimensional Correlation Analysis. *Langmuir*, **2003**, 19, 9459-9465	4	36
176	Synthesis and Non-Isothermal Crystallization Characteristics of Poly[(ethylene)-co-(trimethylene terephthalate)]s. *Macromolecular Chemistry and Physics*, **2001**, 202, 3072-3080	2.6	36
175	Oxidative dehydrogenation of cyclohexene on size selected subnanometer cobalt clusters: improved catalytic performance via evolution of cluster-assembled nanostructures. *Physical Chemistry Chemical Physics*, **2012**, 14, 9336-42	3.6	35
174	Phase Diagram Constructed from the HPLC Fractions of a Polystyrene-b-polyisoprene Prepared by Anionic Polymerization. *Macromolecules*, **2003**, 36, 4662-4666	5.5	34
173	Reconstitutable nanoparticle superlattices. *Nano Letters*, **2014**, 14, 2162-7	11.5	33
172	Oligonucleotide flexibility dictates crystal quality in DNA-programmable nanoparticle superlattices. *Advanced Materials*, **2014**, 26, 7235-40	24	33
171	Structural Investigation of Cesium Lead Halide Perovskites for High-Efficiency Quantum Dot Light-Emitting Diodes. *Journal of Physical Chemistry Letters*, **2017**, 8, 4140-4147	6.4	33
170	Superlattice of rodlike virus particles formed in aqueous solution through like-charge attraction. *Langmuir*, **2011**, 27, 10929-37	4	33
169	Establishing the Design Rules for DNA-Mediated Programmable Colloidal Crystallization. *Angewandte Chemie*, **2010**, 122, 4693-4696	3.6	32
168	Nanocrystals in Molten Salts and Ionic Liquids: Experimental Observation of Ionic Correlations Extending beyond the Debye Length. *ACS Nano*, **2019**, 13, 5760-5770	16.7	31
167	Small-angle scattering of particle assemblies. *Journal of Applied Crystallography*, **2015**, 48, 1172-1182	3.8	31
166	Effect of interfacial interaction on the cross-sectional morphology of tobacco mosaic virus using GISAXS. *Langmuir*, **2007**, 23, 11157-63	4	31
165	Epitaxy: Programmable Atom Equivalents Versus Atoms. *ACS Nano*, **2017**, 11, 180-185	16.7	30

164	Aluminum affects heterogeneous Fe(III) (Hydr)oxide nucleation, growth, and ostwald ripening. *Environmental Science & Technology*, **2014**, 48, 299-306	10.3	30
163	Targeted multimodal nano-reporters for pre-procedural MRI and intra-operative image-guidance. *Biomaterials*, **2016**, 109, 69-77	15.6	30
162	Operando Grazing Incidence Small-Angle X-ray Scattering/X-ray Diffraction of Model Ordered Mesoporous Lithium-Ion Battery Anodes. *ACS Nano*, **2017**, 11, 1443-1454	16.7	29
161	Frank-Kasper Phases Identified in PDMS-b-PTFEA Copolymers with High Conformational Asymmetry. *Macromolecular Rapid Communications*, **2019**, 40, e1900259	4.8	29
160	Support-dependent Performance of Size-selected Subnanometer Cobalt Cluster-based Catalysts in the Dehydrogenation of Cyclohexene. *ChemCatChem*, **2012**, 4, 1632-1637	5.2	29
159	A Solvent-Vapor Approach toward the Control of Block Ionomer Morphologies. *Macromolecules*, **2016**, 49, 3126-3137	5.5	29
158	Light-Responsive Colloidal Crystals Engineered with DNA. *Advanced Materials*, **2020**, 32, e1906600	24	28
157	Effect of nanopatterning on mechanical properties of Lithium anode. *Scientific Reports*, **2018**, 8, 2514	4.9	28
156	Low-Temperature Ionic Conductivity Enhanced by Disrupted Ice Formation in Polyampholyte Hydrogels. *Macromolecules*, **2018**, 51, 2723-2731	5.5	28
155	Substrate-Independent Lamellar Orientation in High-Molecular-Weight Polystyrene-b-poly(methyl methacrylate) Films: Neutral Solvent Vapor and Thermal Annealing Effect. *Macromolecules*, **2014**, 47, 3969-3977	5.5	28
154	In situ small-angle X-ray scattering analysis of palladium nanoparticle growth on tobacco mosaic virus nanotemplates. *Langmuir*, **2011**, 27, 7052-8	4	28
153	In situ study of surface reactions of atomic layer deposited LaxAl2□O3 films on atomically clean In0.2Ga0.8As. *Applied Physics Letters*, **2008**, 93, 172907	3.4	28
152	Understanding and Curing Structural Defects in Colloidal GaAs Nanocrystals. *Nano Letters*, **2017**, 17, 2094-2101	11.5	27
151	SnO Nanostructured Thin Films for Room-Temperature Gas Sensing of Volatile Organic Compounds. *ACS Applied Materials & Interfaces*, **2018**, 10, 29972-29981	9.5	27
150	How "hollow" are hollow nanoparticles?. *Journal of the American Chemical Society*, **2013**, 135, 2435-8	16.4	27
149	Altering DNA-Programmable Colloidal Crystallization Paths by Modulating Particle Repulsion. *Nano Letters*, **2017**, 17, 5126-5132	11.5	27
148	Sequence of Rubbing-Induced Molecular Segmental Reorientations in the Nanoscale Film Surface of a Brush Polymer Rod. *Journal of Physical Chemistry B*, **2003**, 107, 11911-6	3.4	27
147	Phase-Change Thermoplastic Elastomer Blends for Tunable Shape Memory by Physical Design. *Industrial & Engineering Chemistry Research*, **2016**, 55, 12590-12597	3.9	25

146	Formation of iron(III) (hydr)oxides on polyaspartate- and alginate-coated substrates: effects of coating hydrophilicity and functional group. *Environmental Science & Technology*, **2012**, 46, 13167-75	10.3	25
145	Synthesis and characterization of new aromatic polyimides containing well-defined conjugation units. *Polymer Engineering and Science*, **2003**, 43, 1232-1240	2.3	25
144	Photoreaction and Molecular Reorientation in Films of Novel Photosensitive Polyesters Containing n-Alkyl Side Groups and 1,4-Phenylenediacryloyl Units in the Backbone. *Langmuir*, **2003**, 19, 6039-6049	4	25
143	Revealing the Effects of the Non-solvent on the Ligand Shell of Nanoparticles and Their Crystallization. *Journal of the American Chemical Society*, **2019**, 141, 16651-16662	16.4	24
142	Fischer–Tropsch Synthesis at a Low Pressure on Subnanometer Cobalt Oxide Clusters: The Effect of Cluster Size and Support on Activity and Selectivity. *Journal of Physical Chemistry C*, **2015**, 119, 11210-11216	3.8	24
141	Plasmonic Metallurgy Enabled by DNA. *Advanced Materials*, **2016**, 28, 2790-4	24	24
140	Structure Sensitivity of Oxidative Dehydrogenation of Cyclohexane over FeOx and Au/Fe3O4 Nanocrystals. *ACS Catalysis*, **2013**, 3, 529-539	13.1	24
139	Transition behavior of asymmetric polystyrene- b -poly(2-vinylpyridine) films: A stable hexagonally modulated layer structure. *Polymer*, **2015**, 60, 32-39	3.9	24
138	Tunable Thin-Film Crystalline Structures and Field-Effect Mobility of Oligofluorene–Thiophene Derivatives. *Chemistry of Materials*, **2007**, 19, 5882-5889	9.6	24
137	Anomalous Small-Angle X-ray Scattering Characterization of Bulk Block Copolymer/Nanoparticle Composites. *Macromolecules*, **2007**, 40, 4235-4243	5.5	24
136	Stable Subnanometer Cobalt Oxide Clusters on Ultrananocrystalline Diamond and Alumina Supports: Oxidation State and the Origin of Sintering Resistance. *Journal of Physical Chemistry C*, **2012**, 116, 24027-24034	3.8	23
135	Evaluation of Calcium Phosphate Nucleation Kinetics and Pathways during Intra- and Extrafibrillar Mineralization of Collagen Matrices. *Crystal Growth and Design*, **2016**, 16, 5359-5366	3.5	23
134	Determination of the In-Plane Exciton Radius in 2D CdSe Nanoplatelets Magneto-optical Spectroscopy. *ACS Nano*, **2019**, 13, 8589-8596	16.7	22
133	Synthesis and characterization of Au-core Ag-shell nanoparticles from unmodified apoferritin. *Journal of Materials Chemistry*, **2012**, 22, 14458		22
132	Self-assembly of self-limiting monodisperse supraparticles from polydisperse nanoparticles. *Nature Nanotechnology*, **2012**, 7, 479	28.7	22
131	Direct Observation on Spin-Coating Process of PS-b-P2VP Thin Films. *Macromolecules*, **2016**, 49, 3471-3477	5.5	22
130	Oxidation Induced Doping of Nanoparticles Revealed by in Situ X-ray Absorption Studies. *Nano Letters*, **2016**, 16, 3738-47	11.5	22
129	Coordination Assembly of Discoid Nanoparticles. *Angewandte Chemie - International Edition*, **2015**, 54, 8966-70	16.4	21

128	Electrostatic co-assembly of nanoparticles with oppositely charged small molecules into static and dynamic superstructures. *Nature Chemistry*, **2021**, 13, 940-949	17.6	21
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126	Design of lithium cobalt oxide electrodes with high thermal conductivity and electrochemical performance using carbon nanotubes and diamond particles. *Carbon*, **2018**, 129, 702-710	10.4	20
125	Mechanistic understanding of tungsten oxide in-plane nanostructure growth via sequential infiltration synthesis. *Nanoscale*, **2018**, 10, 3469-3479	7.7	18
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