Byeongdu Lee

List of Publications by Year
in descending order

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291 papers	18,361 citations	14614 66 h-index	16605 123 g-index
304 all docs	304 docs citations	304 times ranked	20632 citing authors

#	Article	IF	Citations
1	DNA-programmable nanoparticle crystallization. Nature, 2008, 451, 553-556.	13.7	1,431
2	Nanoparticle Superlattice Engineering with DNA. Science, 2011, 334, 204-208.	6.0	1,013
3	Increased Silver Activity for Direct Propylene Epoxidation via Subnanometer Size Effects. Science, 2010, 328, 224-228.	6.0	783
4	Small Angle X-ray Scattering for Nanoparticle Research. Chemical Reviews, 2016, 116, 11128-11180.	23.0	667
5	DNA-nanoparticle superlattices formed from anisotropic building blocks. Nature Materials, 2010, 9, 913-917.	13.3	596
6	Self-assembly of self-limiting monodisperse supraparticles from polydisperse nanoparticles. Nature Nanotechnology, 2011, 6, 580-587.	15.6	488
7	Structural Analysis of Block Copolymer Thin Films with Grazing Incidence Small-Angle X-ray Scattering. Macromolecules, 2005, 38, 4311-4323.	2.2	366
8	When Function Follows Form: Effects of Donor Copolymer Side Chains on Film Morphology and BHJ Solar Cell Performance. Advanced Materials, 2010, 22, 5468-5472.	11.1	315
9	Selective Propene Epoxidation on Immobilized Au_{6â€“10} Clusters: The Effect of Hydrogen and Water on Activity and Selectivity. Angewandte Chemie - International Edition, 2009, 48, 1467-1471.	7.2	246
10	Ultralow-k nanoporous organosilicate dielectric films imprinted with dendritic spheres. Nature Materials, 2005, 4, 147-150.	13.3	243
11	Assessment of Anisotropic Semiconductor Nanorod and Nanoplatelet Heterostructures with Polarized Emission for Liquid Crystal Display Technology. ACS Nano, 2016, 10, 5769-5781.	7.3	195
12	Building superlattices from individual nanoparticles via template-confined DNA-mediated assembly. Science, 2018, 359, 669-672.	6.0	195
13	Heterogeneous nucleation and shape transformation of multicomponent metallicÂnanostructures. Nature Materials, 2015, 14, 215-223.	13.3	187
14	Controlled Growth of Platinum Nanoparticles on Strontium Titanate Nanocubes by Atomic Layer Deposition. Small, 2009, 5, 750-757.	5.2	158
15	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, 8953-8960.	6.6	157
16	Using DNA to Design Plasmonic Metamaterials with Tunable Optical Properties. Advanced Materials, 2014, 26, 653-659.	11.1	157
17	Anisotropic nanoparticle complementarity in DNA-mediated co-crystallization. Nature Materials, 2015, 14, 833-839.	13.3	154
18	Stable colloids in molten inorganic salts. Nature, 2017, 542, 328-331.	13.7	148

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19	Capping Ligands as Selectivity Switchers in Hydrogenation Reactions. Nano Letters, 2012, 12, 5382-5388.	4.5	146
20	Structure, Dynamics, and Power Conversion Efficiency Correlations in a New Low Bandgap Polymer: PCBM Solar Cell. Journal of Physical Chemistry B, 2010, 114, 742-748.	1.2	145
21	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, 2240-2245.	3.3	144
22	Establishing the Design Rules for DNAâ€Mediated Programmable Colloidal Crystallization. Angewandte Chemie - International Edition, 2010, 49, 4589-4592.	7.2	139
23	Topotactic Interconversion of Nanoparticle Superlattices. Science, 2013, 341, 1222-1225.	6.0	137
24	Colloidal nanoparticle size control: experimental and kinetic modeling investigation of the ligandâ€“metal binding role in controlling the nucleation and growth kinetics. Nanoscale, 2017, 9, 13772-13785.	2.8	137
25	Size-Dependent Multiple Twinning in Nanocrystal Superlattices. Journal of the American Chemical Society, 2010, 132, 289-296.	6.6	134
26	Assembly and organization processes in DNA-directed colloidal crystallization. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10493-10498.	3.3	133
27	Current status of the synchrotron small-angle X-ray scattering Station BL4C1 at the Pohang Accelerator Laboratory. Macromolecular Research, 2002, 10, 2-12.	1.0	126
28	Tunable structural color of bottlebrush block copolymers through direct-write 3D printing from solution. Science Advances, 2020, 6, eaaz7202.	4.7	124
29	In-Situ Grazing Incidence Small-Angle X-ray Scattering Studies on Nanopore Evolution in Low-kOrganosilicate Dielectric Thin Films. Macromolecules, 2005, 38, 3395-3405.	2.2	123
30	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.	6.6	123
31	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.	0.9	122
32	Electrostatic co-assembly of nanoparticles with oppositely charged small molecules into static and dynamic superstructures. Nature Chemistry, 2021, 13, 940-949.	6.6	121
33	Improving Brush Polymer Infrared One-Dimensional Photonic Crystals via Linear Polymer Additives. Journal of the American Chemical Society, 2014, 136, 17374-17377.	6.6	118
34	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.	2.2	115
35	Controlling the Lattice Parameters of Gold Nanoparticle FCC Crystals with Duplex DNA Linkers. Nano Letters, 2008, 8, 2341-2344.	4.5	113
36	Oxidative Dehydrogenation of Cyclohexane on Cobalt Oxide (Co₃O₄) Nanoparticles: The Effect of Particle Size on Activity and Selectivity. ACS Catalysis, 2012, 2, 2409-2423.	5.5	113

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37	Directed Assembly of High Molecular Weight Block Copolymers: Highly Ordered Line Patterns of Perpendicularly Oriented Lamellae with Large Periods. ACS Nano, 2013, 7, 1952-1960.	7.3	113
38	Characteristics of high-k Al2O3 dielectric using ozone-based atomic layer deposition for dual-gated graphene devices. Applied Physics Letters, 2010, 97, .	1.5	108
39	Design, Synthesis, and Self-Assembly of Polymers with Tailored Graft Distributions. Journal of the American Chemical Society, 2017, 139, 17683-17693.	6.6	108
40	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.	2.2	106
41	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.	11.1	103
42	Self-Assembly of Tobacco Mosaic Virus at Oil/Water Interfaces. Langmuir, 2009, 25, 4979-4987.	1.6	100
43	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.	3.3	99
44	Conjugated Ladder Polymers by a Cyclopentannulation Polymerization. Journal of the American Chemical Society, 2017, 139, 5801-5807.	6.6	96
45	Assembly of Tobacco Mosaic Virus into Fibrous and Macroscopic Bundled Arrays Mediated by Surface Aniline Polymerization. Langmuir, 2007, 23, 6719-6724.	1.6	95
46	Stepwise Evolution of DNAâ€Programmable Nanoparticle Superlattices. Angewandte Chemie - International Edition, 2013, 52, 6624-6628.	7.2	92
47	Particle analogs of electrons in colloidal crystals. Science, 2019, 364, 1174-1178.	6.0	91
48	A Directional Entropic Force Approach to Assemble Anisotropic Nanoparticles into Superlattices. Angewandte Chemie - International Edition, 2013, 52, 13980-13984.	7.2	90
49	Photoreactions and Photoinduced Molecular Orientations of Films of a Photoreactive Polyimide and Their Alignment of Liquid Crystals. Macromolecules, 2003, 36, 6527-6536.	2.2	88
50	Relationship between Interchain Interaction, Exciton Delocalization, and Charge Separation in Low-Bandgap Copolymer Blends. Journal of the American Chemical Society, 2014, 136, 10024-10032.	6.6	88
51	Effects of Grafting Density on Block Polymer Self-Assembly: From Linear to Bottlebrush. ACS Nano, 2017, 11, 11632-11641.	7.3	87
52	The role of confined collagen geometry in decreasing nucleation energy barriers to intrafibrillar mineralization. Nature Communications, 2018, 9, 962.	5.8	86
53	Modular Self-Assembly of Protein Cage Lattices for Multistep Catalysis. ACS Nano, 2018, 12, 942-953.	7.3	86
54	Sequential Infiltration Synthesis for the Design of Low Refractive Index Surface Coatings with Controllable Thickness. ACS Nano, 2017, 11, 2521-2530.	7.3	84

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55	Reaction Mechanism for Direct Propylene Epoxidation by Alumina-Supported Silver Aggregates: The Role of the Particle/Support Interface. ACS Catalysis, 2014, 4, 32-39.	5.5	82
56	Advanced smart-photosensitizers for more effective cancer treatment. Biomaterials Science, 2018, 6, 79-90.	2.6	82
57	Exploring the Programmable Assembly of a Polyoxometalateâ€“Organic Hybrid via Metal Ion Coordination. Journal of the American Chemical Society, 2013, 135, 13425-13432.	6.6	78
58	In Situ Determination of Interfacial Energies between Heterogeneously Nucleated CaCO₃ and Quartz Substrates: Thermodynamics of CO₂ Mineral Trapping. Environmental Science & Technology, 2013, 47, 102-109.	4.6	78
59	3D Hexagonal (R-3m) Mesostructured Nanocrystalline Titania Thin Films: Synthesis and Characterization. Advanced Functional Materials, 2006, 16, 1731-1738.	7.8	76
60	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.	1.5	76
61	High-Pressure Structural Stability and Elasticity of Supercrystals Self-Assembled from Nanocrystals. Nano Letters, 2011, 11, 579-588.	4.5	76
62	Epitaxial Phase Transition of Polystyrene-b-Polyisoprene from Hexagonally Perforated Layer to Gyroid Phase in Thin Film. Macromolecules, 2005, 38, 10532-10536.	2.2	75
63	Reactivity of supported platinum nanoclusters studied by in situ GISAXS: clusters stability under hydrogen. Topics in Catalysis, 2006, 39, 145-149.	1.3	73
64	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.	1.3	70
65	Growth of Metal Oxide Nanowires from Supercooled Liquid Nanodroplets. Nano Letters, 2009, 9, 4138-4146.	4.5	70
66	Small-angle x-ray scattering station 4C2 BL of pohang accelerator laboratory for advance in Korean polymer science. Macromolecular Research, 2008, 16, 575-585.	1.0	69
67	In Situ Observations of Nanoparticle Early Development Kinetics at Mineralâ^'Water Interfaces. Environmental Science & Technology, 2010, 44, 8182-8189.	4.6	68
68	Interfacial Energies for Heterogeneous Nucleation of Calcium Carbonate on Mica and Quartz. Environmental Science & Technology, 2014, 48, 5745-5753.	4.6	68
69	Simple, Readily Controllable Palladium Nanoparticle Formation on Surface-Assembled Viral Nanotemplates. Langmuir, 2010, 26, 3670-3677.	1.6	66
70	In Situ Optical and Structural Studies on Photoluminesence Quenching in CdSe/CdS/Au Heterostructures. Journal of the American Chemical Society, 2014, 136, 2342-2350.	6.6	66
71	Interfacial Assembly of Turnip Yellow Mosaic Virus Nanoparticles. Langmuir, 2009, 25, 5168-5176.	1.6	65
72	Enhancement of Local Piezoresponse in Polymer Ferroelectrics via Nanoscale Control of Microstructure. ACS Nano, 2015, 9, 1809-1819.	7.3	65

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73	Tunable Oleo-Furan Surfactants by Acylation of Renewable Furans. ACS Central Science, 2016, 2, 820-824.	5.3	64
74	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.	3.2	63
75	Effect of Molecular Properties of Block Copolymers and Nanoparticles on the Morphology of Self-Assembled Bulk Nanocomposites. Macromolecules, 2007, 40, 8302-8310.	2.2	63
76	Nanoscale Structure and Morphology of Atomic Layer Deposition Platinum on SrTiO₃ (001). Chemistry of Materials, 2009, 21, 516-521.	3.2	63
77	Time-Resolved Synchrotron X-ray Diffraction and Infrared Spectroscopic Studies of Imidization and Structural Evolution in a Microscaled Film of PMDA-3,4â€˜-ODA Poly(amic acid). Langmuir, 2001, 17, 7842-7850.	1.6	61
78	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, 16386-16388.	6.6	61
79	Investigation on the catalytic reduction kinetics of hexavalent chromium by viral-templated palladium nanocatalysts. Catalysis Today, 2014, 233, 108-116.	2.2	61
80	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, 10485-10490.	3.3	61
81	The role of nanoparticle size and ligand coverage in size focusing of colloidal metal nanoparticles. Nanoscale Advances, 2019, 1, 4052-4066.	2.2	61
82	Secondary Crystallization Behavior of Poly(ethylene isophthalate-co-terephthalate):Â Time-Resolved Small-Angle X-ray Scattering and Calorimetry Studies. Macromolecules, 2004, 37, 4174-4184.	2.2	59
83	Dissolved Organic Matter Affects Arsenic Mobility and Iron(III) (hydr)oxide Formation: Implications for Managed Aquifer Recharge. Environmental Science & Technology, 2019, 53, 14357-14367.	4.6	59
84	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.	1.8	58
85	Viral-templated palladium nanocatalysts for Suzuki coupling reaction. Journal of Materials Chemistry, 2011, 21, 187-194.	6.7	58
86	Intermolecular Structural Change for Thermoswitchable Polymeric Photosensitizer. Journal of the American Chemical Society, 2016, 138, 10734-10737.	6.6	58
87	Environmentally Abundant Anions Influence the Nucleation, Growth, Ostwald Ripening, and Aggregation of Hydrous Fe(III) Oxides. Langmuir, 2012, 28, 7737-7746.	1.6	57
88	A Soluble Photoreactive Polyimide Bearing the Coumarin Chromophore in the Side Group:Â Photoreaction, Photoinduced Molecular Reorientation, and Liquid-Crystal Alignability in Thin Films. Langmuir, 2003, 19, 10381-10389.	1.6	56
89	Thermal Stability of Supported Platinum Clusters Studied by in Situ GISAXS. Journal of Physical Chemistry B, 2004, 108, 18105-18107.	1.2	56
90	Anomalous grazing incidence small-angle x-ray scattering studies of platinum nanoparticles formed by cluster deposition. Journal of Chemical Physics, 2005, 123, 074701.	1.2	56

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91	Role of then-Alkyl End of Bristles in Governing Liquid Crystal Alignment at Rubbed Films of Brush Polymer Rods. Macromolecules, 2005, 38, 4331-4338.	2.2	56
92	Electropolymerization of a Bifunctional Ionic Liquid Monomer Yields an Electroactive Liquidâ€Crystalline Polymer. Advanced Functional Materials, 2010, 20, 2063-2070.	7.8	56
93	Control of Heterogeneous Fe(III) (Hydr)oxide Nucleation and Growth by Interfacial Energies and Local Saturations. Environmental Science & Technology, 2013, 47, 9198-9206.	4.6	56
94	Conduction Band Fine Structure in Colloidal HgTe Quantum Dots. ACS Nano, 2018, 12, 9397-9404.	7.3	56
95	Importance of the DNA â€œbondâ€•in programmable nanoparticle crystallization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14995-15000.	3.3	55
96	Scattering Studies of Nanoporous Organosilicate Thin Films Imprinted with Reactive Star Porogens. Macromolecules, 2005, 38, 8991-8995.	2.2	54
97	Modulating Nanoparticle Superlattice Structure Using Proteins with Tunable Bond Distributions. Journal of the American Chemical Society, 2017, 139, 1754-1757.	6.6	53
98	Manipulating the ABCs of self-assembly via low-Ï‡ block polymer design. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6462-6467.	3.3	53
99	Nondestructive quantitative synchrotron grazing incidence X-ray scattering analysis of cylindrical nanostructures in supported thin films. Journal of Applied Crystallography, 2007, 40, 305-312.	1.9	52
100	Viral templated palladium nanocatalysts for dichromate reduction. Applied Catalysis B: Environmental, 2010, 93, 282-291.	10.8	52
101	Templated Assembly of a Functional Ordered Protein Macromolecular Framework from P22 Virus-like Particles. ACS Nano, 2018, 12, 3541-3550.	7.3	52
102	Electron Density Mapping of Triblock Copolymers Associated with Model Biomembranes: Insights into Conformational States and Effect on Bilayer Structure. Biomacromolecules, 2008, 9, 1541-1550.	2.6	51
103	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.	0.7	51
104	Frankâ€“Kasper Phases Identified in PDMSâ€bâ€PTFEA Copolymers with High Conformational Asymmetry. Macromolecular Rapid Communications, 2019, 40, e1900259.	2.0	51
105	Closed-Packed Colloidal Assemblies from Icosahedral Plant Virus and Polymer. Chemistry of Materials, 2009, 21, 1046-1050.	3.2	50
106	DNA-Encoded Protein Janus Nanoparticles. Journal of the American Chemical Society, 2018, 140, 9269-9274.	6.6	48
107	Nanocrystals in Molten Salts and Ionic Liquids: Experimental Observation of Ionic Correlations Extending beyond the Debye Length. ACS Nano, 2019, 13, 5760-5770.	7.3	48
108	New Clues to the Factors Governing the Perpendicular Alignment of Liquid Crystals on Rubbed Polystyrene Film Surfaces. Langmuir, 2003, 19, 8735-8743.	1.6	47

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109	Effect of Molecular Weight on the Surface Morphology, Molecular Reorientation, and Liquid Crystal Alignment Properties of Rubbed Polystyrene Films. Macromolecules, 2003, 36, 9905-9916.	2.2	46
110	Biomolecular Assembly of Thermoresponsive Superlattices of the Tobacco Mosaic Virus with Large Tunable Interparticle Distances. Angewandte Chemie - International Edition, 2013, 52, 6638-6642.	7.2	44
111	SnO₂ Nanostructured Thin Films for Room-Temperature Gas Sensing of Volatile Organic Compounds. ACS Applied Materials & Interfaces, 2018, 10, 29972-29981.	4.0	44
112	Aluminum Affects Heterogeneous Fe(III) (Hydr)oxide Nucleation, Growth, and Ostwald Ripening. Environmental Science & Technology, 2014, 48, 299-306.	4.6	43
113	Poly(ethylene-co-ethyleneoxyethylene terephthalate)s: synthesis and non-isothermal crystallization behavior. Macromolecular Chemistry and Physics, 2000, 201, 453-463.	1.1	42
114	The effect of graphite surface condition on the composition of Al2O3 by atomic layer deposition. Applied Physics Letters, 2010, 97, .	1.5	42
115	Small-angle scattering of particle assemblies. Journal of Applied Crystallography, 2015, 48, 1172-1182.	1.9	42
116	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.	7.3	42
117	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.	1.2	41
118	Imprinting of nanopores in organosilicate dielectric thin films with hyperbranched ketalized polyglycidol. Polymer, 2005, 46, 7394-7402.	1.8	40
119	Oligonucleotide Flexibility Dictates Crystal Quality in DNAâ€Programmable Nanoparticle Superlattices. Advanced Materials, 2014, 26, 7235-7240.	11.1	40
120	Targeted multimodal nano-reporters for pre-procedural MRI and intra-operative image-guidance. Biomaterials, 2016, 109, 69-77.	5.7	40
121	Lightâ€Responsive Colloidal Crystals Engineered with DNA. Advanced Materials, 2020, 32, e1906600.	11.1	40
122	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.	1.6	39
123	Superlattice of Rodlike Virus Particles Formed in Aqueous Solution through Like-Charge Attraction. Langmuir, 2011, 27, 10929-10937.	1.6	39
124	Low-Temperature Ionic Conductivity Enhanced by Disrupted Ice Formation in Polyampholyte Hydrogels. Macromolecules, 2018, 51, 2723-2731.	2.2	39
125	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.	1.3	38
126	Reconstitutable Nanoparticle Superlattices. Nano Letters, 2014, 14, 2162-2167.	4.5	38

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127	Synthesis and Non-Isothermal Crystallization Characteristics of Poly[(ethylene)-co-(trimethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	1.1	37
128	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.	1.3	37
129	The emergence of valency in colloidal crystals through electron equivalents. Nature Materials, 2022, 21, 580-587.	13.3	37
130	Phase Diagram Constructed from the HPLC Fractions of a Polystyrene-b-polyisoprene Prepared by Anionic Polymerization. Macromolecules, 2003, 36, 4662-4666.	2.2	36
131	Altering DNA-Programmable Colloidal Crystallization Paths by Modulating Particle Repulsion. Nano Letters, 2017, 17, 5126-5132.	4.5	36
132	Epitaxy: Programmable Atom Equivalents Versus Atoms. ACS Nano, 2017, 11, 180-185.	7.3	35
133	Structural Investigation of Cesium Lead Halide Perovskites for High-Efficiency Quantum Dot Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2017, 8, 4140-4147.	2.1	35
134	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.	6.6	35
135	Determination of the In-Plane Exciton Radius in 2D CdSe Nanoplatelets via Magneto-optical Spectroscopy. ACS Nano, 2019, 13, 8589-8596.	7.3	35
136	Effect of Interfacial Interaction on the Cross-Sectional Morphology of Tobacco Mosaic Virus Using GISAXS. Langmuir, 2007, 23, 11157-11163.	1.6	34
137	A Solvent-Vapor Approach toward the Control of Block Ionomer Morphologies. Macromolecules, 2016, 49, 3126-3137.	2.2	34
138	In Situ Evaluation of Calcium Phosphate Nucleation Kinetics and Pathways during Intra- and Extrafibrillar Mineralization of Collagen Matrices. Crystal Growth and Design, 2016, 16, 5359-5366.	1.4	34
139	Understanding and Curing Structural Defects in Colloidal GaAs Nanocrystals. Nano Letters, 2017, 17, 2094-2101.	4.5	34
140	Effect of nanopatterning on mechanical properties of Lithium anode. Scientific Reports, 2018, 8, 2514.	1.6	33
141	Supportâ€dependent Performance of Sizeâ€selected Subnanometer Cobalt Clusterâ€based Catalysts in the Dehydrogenation of Cyclohexene. ChemCatChem, 2012, 4, 1632-1637.	1.8	32
142	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.	2.2	32
143	Phase-Change Thermoplastic Elastomer Blends for Tunable Shape Memory by Physical Design. Industrial & Engineering Chemistry Research, 2016, 55, 12590-12597.	1.8	32
144	In situ study of surface reactions of atomic layer deposited LaxAl2â^'xO3 films on atomically clean In0.2Ga0.8As. Applied Physics Letters, 2008, 93, .	1.5	31

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145	Formation of Iron(III) (Hydr)oxides on Polyaspartate- and Alginate-Coated Substrates: Effects of Coating Hydrophilicity and Functional Group. Environmental Science & Technology, 2012, 46, 13167-13175.	4.6	31
146	The Role of Repulsion in Colloidal Crystal Engineering with DNA. Journal of the American Chemical Society, 2017, 139, 16528-16535.	6.6	31
147	Plasmonic Metallurgy Enabled by DNA. Advanced Materials, 2016, 28, 2790-2794.	11.1	30
148	Cargo Retention inside P22 Virus-Like Particles. Biomacromolecules, 2018, 19, 3738-3746.	2.6	30
149	Sequence of Rubbing-Induced Molecular Segmental Reorientations in the Nanoscale Film Surface of a Brush Polymer Rod. Journal of Physical Chemistry B, 2003, 107, 11911-11916.	1.2	29
150	In Situ Small-Angle X-ray Scattering Analysis of Palladium Nanoparticle Growth on Tobacco Mosaic Virus Nanotemplates. Langmuir, 2011, 27, 7052-7058.	1.6	29
151	Tumor Microenvironment Targeting Nanoâ€“Bio Emulsion for Synergistic Combinational Xâ€Ray PDT with Oncolytic Bacteria Therapy. Advanced Healthcare Materials, 2020, 9, e1901812.	3.9	29
152	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.	1.6	28
153	How â€œHollowâ€•Are Hollow Nanoparticles?. Journal of the American Chemical Society, 2013, 135, 2435-2438.	6.6	28
154	Structure Sensitivity of Oxidative Dehydrogenation of Cyclohexane over FeO_x and Au/Fe₃O₄ Nanocrystals. ACS Catalysis, 2013, 3, 529-539.	5.5	28
155	Substitutional Growth of Methylammonium Lead Iodide Perovskites in Alcohols. Advanced Energy Materials, 2018, 8, 1701726.	10.2	28
156	Design of lithium cobalt oxide electrodes with high thermal conductivity and electrochemical performance using carbon nanotubes and diamond particles. Carbon, 2018, 129, 702-710.	5.4	27
157	Tunable Thin-Film Crystalline Structures and Field-Effect Mobility of Oligofluoreneâ€“Thiophene Derivatives. Chemistry of Materials, 2007, 19, 5882-5889.	3.2	26
158	Anomalous Small-Angle X-ray Scattering Characterization of Bulk Block Copolymer/Nanoparticle Composites. Macromolecules, 2007, 40, 4235-4243.	2.2	26
159	Self-assembly of self-limiting monodisperse supraparticles from polydisperse nanoparticles. Nature Nanotechnology, 2012, 7, 479-479.	15.6	26
160	Transition behavior of asymmetric polystyrene- b -poly(2-vinylpyridine) films: A stable hexagonally modulated layer structure. Polymer, 2015, 60, 32-39.	1.8	26
161	Fischerâ€“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.	1.5	26
162	Synthesis and characterization of new aromatic polyimides containing well-defined conjugation units. Polymer Engineering and Science, 2003, 43, 1232-1240.	1.5	25

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