

# Byeongdu Lee

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Synthesis and Characterization of Mesoporous Silica Nanoparticles Loaded with Pt Catalysts. <i>Catalysts</i> , <b>2022</b> , 12, 183	4	0
288	The emergence of valency in colloidal crystals through electron equivalents.. <i>Nature Materials</i> , <b>2022</b> , ,	27	10
287	Flexible 3D Nanonetworked Silica Film as Polymer-free Drug-eluting Stent Platform to Effectively Suppress Tissue Hyperplasia in Rat Esophagus.. <i>Advanced Healthcare Materials</i> , <b>2022</b> , e2200389	10.1	
286	Processing Effects on the Self-Assembly of Brush Block Polymer Photonic Crystals.. <i>ACS Macro Letters</i> , <b>2021</b> , 10, 1480-1486	6.6	1
285	Nanoparticle Superlattices through Template-Encoded DNA Dendrimers. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 17170-17179	16.4	3
284	Mesoscale Frank-Kasper Crystal Structures from Dendron Assembly by Controlling Core Apex Interactions. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 17548-17556	16.4	1
283	Various Low-Symmetry Phases in High- $\Gamma$ Conformationally Asymmetric PDMS-b-PTFEA Copolymers. <i>Macromolecules</i> , <b>2021</b> , 54, 9351-9360	5.5	2
282	Recent advances in small angle x-ray scattering for superlattice study. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 011305	17.3	6
281	Polymer Coatings on Virus-like Particle Nanoreactors at Low Ionic Strength-Charge Reversal and Substrate Access. <i>Biomacromolecules</i> , <b>2021</b> , 22, 2107-2118	6.9	4
280	Symmetry-breaking in double gyroid block copolymer films by non-affine distortion. <i>Applied Materials Today</i> , <b>2021</b> , 23, 101006	6.6	6
279	Low-Density 2D Superlattices Assembled via Directional DNA Bonding. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 19035-19040	16.4	2
278	Sulfate-Controlled Heterogeneous CaCO <sub>3</sub> Nucleation and Its Non-linear Interfacial Energy Evolution. <i>Environmental Science &amp; Technology</i> , <b>2021</b> ,	10.3	2
277	A Size-Selectively Biomolecule-Immobilized Nanoprobe-Based Chemiluminescent Lateral Flow Immunoassay for Detection of Avian-Origin Viruses. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 792-800	7.8	11
276	Solvent manipulation of the pre-reduction metal-ligand complex and particle-ligand binding for controlled synthesis of Pd nanoparticles. <i>Nanoscale</i> , <b>2021</b> , 13, 206-217	7.7	3
275	Effect of network connectivity on the mechanical and transport properties of block copolymer gels. <i>Journal of Polymer Science</i> , <b>2021</b> , 59, 34-42	2.4	5
274	Probing the Consequences of Cubic Particle Shape and Applied Field on Colloidal Crystal Engineering with DNA. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 4065-4069	16.4	3
273	Cyclic strain enhances the early stage mineral nucleation and the modulus of demineralized bone matrix. <i>Biomaterials Science</i> , <b>2021</b> , 9, 5907-5916	7.4	5

272	Magneto mitochondrial dysfunction mediated cancer cell death using intracellular magnetic nano-transducers. <i>Biomaterials Science</i> , <b>2021</b> , 9, 5497-5507	7.4	1
271	Nanocarrier-loaded block copolymer dual domain organogels. <i>Polymer</i> , <b>2021</b> , 214, 123246	3.9	2
270	Low-Density 2D Superlattices Assembled via Directional DNA Bonding. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 19183-19188	3.6	
269	Enhancing ion transport in charged block copolymers by stabilizing low symmetry morphology: Electrostatic control of interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
268	Substrate Partitioning into Protein Macromolecular Frameworks for Enhanced Catalytic Turnover. <i>ACS Nano</i> , <b>2021</b> , 15, 15687-15699	16.7	2
267	Oblique angle deposition of boron carbide films by magnetron sputtering. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 125305	2.5	3
266	Electrostatic co-assembly of nanoparticles with oppositely charged small molecules into static and dynamic superstructures. <i>Nature Chemistry</i> , <b>2021</b> , 13, 940-949	17.6	21
265	Probing the Consequences of Cubic Particle Shape and Applied Field on Colloidal Crystal Engineering with DNA. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 4111-4115	3.6	1
264	A Fourier transform infrared spectroscopy-based method for tracking diffusion in organogels. <i>Journal of Polymer Science</i> , <b>2020</b> , 58, 1707-1716	2.4	3
263	Tunable structural color of bottlebrush block copolymers through direct-write 3D printing from solution. <i>Science Advances</i> , <b>2020</b> , 6, eaaz7202	14.3	61
262	Tumor Microenvironment Targeting Nano-Bio Emulsion for Synergistic Combinational X-Ray PDT with Oncolytic Bacteria Therapy. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901812	10.1	15
261	Silica Nanodepletors: Targeting and Clearing Alzheimer's Amyloid Plaques. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910475	15.6	15
260	Ionic complexation of endblock-sulfonated thermoplastic elastomers and their physical gels for improved thermomechanical performance. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 567, 419-428	9.3	2
259	Light-Responsive Colloidal Crystals Engineered with DNA. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906600	24	28
258	Pulsed Electrical Stimulation Enhances Body Fluid Transport for Collagen Biomineralization.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 902-910	4.1	2
257	Visualizing Heterogeneity of Monodisperse CdSe Nanocrystals by Their Assembly into Three-Dimensional Supercrystals. <i>ACS Nano</i> , <b>2020</b> , 14, 14989-14998	16.7	3
256	Oxide-Free Three-Dimensional Germanium/Silicon Core-Shell Metalattice Made by High-Pressure Confined Chemical Vapor Deposition. <i>ACS Nano</i> , <b>2020</b> , 14, 12810-12818	16.7	2
255	Interfacial and Activation Energies of Environmentally Abundant Heterogeneously Nucleated Iron(III) (Hydr)oxide on Quartz. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 12119-12129	10.3	5

254	The role of nanoparticle size and ligand coverage in size focusing of colloidal metal nanoparticles. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 4052-4066	5.1	41
253	Revealing the Effects of the Non-solvent on the Ligand Shell of Nanoparticles and Their Crystallization. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 16651-16662	16.4	24
252	Alternating crystalline lamellar structures from thermodynamically miscible poly( $\epsilon$ -caprolactone) H/D blends. <i>Polymer</i> , <b>2019</b> , 175, 320-328	3.9	3
251	Determination of the In-Plane Exciton Radius in 2D CdSe Nanoplatelets Magneto-optical Spectroscopy. <i>ACS Nano</i> , <b>2019</b> , 13, 8589-8596	16.7	22
250	Particle analogs of electrons in colloidal crystals. <i>Science</i> , <b>2019</b> , 364, 1174-1178	33.3	62
249	Diverse Bilayer Morphologies Achieved via Helix-to-Sheet Transitions in a Short Amphiphilic Peptide. <i>Langmuir</i> , <b>2019</b> , 35, 8961-8967	4	3
248	Surface Wetting Controls Calcium Carbonate Crystallization Kinetics. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3340-3348	9.6	10
247	Linker-Mediated Assembly of Virus-Like Particles into Ordered Arrays via Electrostatic Control.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 2192-2201	4.1	8
246	Light-triggered thermal conductivity switching in azobenzene polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 5973-5978	11.5	56
245	Nanocrystals in Molten Salts and Ionic Liquids: Experimental Observation of Ionic Correlations Extending beyond the Debye Length. <i>ACS Nano</i> , <b>2019</b> , 13, 5760-5770	16.7	31
244	Structural analysis of the initial lithiation of NiO thin film electrodes. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 8897-8905	3.6	4
243	Energy Transfer Induced by Dye Encapsulation in a Hybrid Nanoparticle-Purple Membrane Reversible Assembly. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904899	15.6	5
242	Frank-Kasper Phases Identified in PDMS-b-PTFEA Copolymers with High Conformational Asymmetry. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1900259	4.8	29
241	Dissolved Organic Matter Affects Arsenic Mobility and Iron(III) (hydr)oxide Formation: Implications for Managed Aquifer Recharge. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 14357-14367	10.3	17
240	Hypoxia-induced biosynthesis of gold nanoparticles in the living brain. <i>Nanoscale</i> , <b>2019</b> , 11, 19285-19290	7.7	1
239	Systematic Approaches To Tailor the Morphologies and Transport Properties of Solution-Cast Sulfonated Pentablock Copolymers. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 8-17	4.3	6
238	In Situ Mechanochemical Modulation of Carbon Nanotube Forest Growth. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 407-418	9.6	5
237	Self-Assembly of a Midblock-Sulfonated Pentablock Copolymer in Mixed Organic Solvents: A Combined SAXS and SANS Analysis. <i>Langmuir</i> , <b>2019</b> , 35, 1032-1039	4	7

236	Effect of the Micelle Opening in Self-assembled Amphiphilic Block Co-polymer Films on the Infiltration of Inorganic Precursors. <i>Langmuir</i> , <b>2019</b> , 35, 796-803	4	12
235	Controlled Symmetry Breaking in Colloidal Crystal Engineering with DNA. <i>ACS Nano</i> , <b>2019</b> , 13, 1412-1420	6.7	11
234	The role of confined collagen geometry in decreasing nucleation energy barriers to intrafibrillar mineralization. <i>Nature Communications</i> , <b>2018</b> , 9, 962	17.4	52
233	Supramolecular self-assembly of bacteriochlorophyll c molecules in aerosolized droplets to synthesize biomimetic chlorosomes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2018</b> , 185, 161-168	6.7	6
232	Mechanistic understanding of tungsten oxide in-plane nanostructure growth via sequential infiltration synthesis. <i>Nanoscale</i> , <b>2018</b> , 10, 3469-3479	7.7	18
231	Nanoscale in situ detection of nucleation and growth of Li electrodeposition at various current densities. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4629-4635	13	16
230	Building superlattices from individual nanoparticles via template-confined DNA-mediated assembly. <i>Science</i> , <b>2018</b> , 359, 669-672	33.3	145
229	Effect of nanopatterning on mechanical properties of Lithium anode. <i>Scientific Reports</i> , <b>2018</b> , 8, 2514	4.9	28
228	Ordering and Grain Growth in Charged Block Copolymer Bulk Films: A Comparison of Solvent-Related Processes. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701667	4.6	3
227	Design of lithium cobalt oxide electrodes with high thermal conductivity and electrochemical performance using carbon nanotubes and diamond particles. <i>Carbon</i> , <b>2018</b> , 129, 702-710	10.4	20
226	Low-Temperature Ionic Conductivity Enhanced by Disrupted Ice Formation in Polyampholyte Hydrogels. <i>Macromolecules</i> , <b>2018</b> , 51, 2723-2731	5.5	28
225	Stimuli Responsive Hierarchical Assembly of P22 Virus-like Particles. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 2262-2273	9.6	10
224	Templated Assembly of a Functional Ordered Protein Macromolecular Framework from P22 Virus-like Particles. <i>ACS Nano</i> , <b>2018</b> , 12, 3541-3550	16.7	37
223	Substitutional Growth of Methylammonium Lead Iodide Perovskites in Alcohols. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701726	21.8	15
222	Ligand-Mediated Nucleation and Growth of Palladium Metal Nanoparticles. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	11
221	Photoperiodic Flower Mimicking Metallic Nanoparticles for Image-Guided Medicine Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27570-27577	9.5	10
220	Microphase-Separated Morphologies and Molecular Network Topologies in Multiblock Copolymer Gels. <i>Macromolecules</i> , <b>2018</b> , 51, 5173-5181	5.5	16
219	DNA-Encoded Protein Janus Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9269-9274	7.4	38

218	Gallstone-Formation-Inspired Bimetallic Supra-nanostructures for Computed-Tomography-Image-Guided Radiation Therapy. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 4602-4611	5.6	4
217	Correlative SPM/TEM Investigation of the Electrochemical Deposition of Lithium Metal. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1524-1525	0.5	
216	Cargo Retention inside P22 Virus-Like Particles. <i>Biomacromolecules</i> , <b>2018</b> , 19, 3738-3746	6.9	14
215	SnO Nanostructured Thin Films for Room-Temperature Gas Sensing of Volatile Organic Compounds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29972-29981	9.5	27
214	Direct visualization of nano and microscale polymer morphologies in as-prepared and dialyzed polyampholyte hydrogels by electron microscopy techniques. <i>MRS Communications</i> , <b>2018</b> , 8, 1079-1084	2.7	4
213	Conduction Band Fine Structure in Colloidal HgTe Quantum Dots. <i>ACS Nano</i> , <b>2018</b> , 12, 9397-9404	16.7	37
212	Modular Self-Assembly of Protein Cage Lattices for Multistep Catalysis. <i>ACS Nano</i> , <b>2018</b> , 12, 942-953	16.7	63
211	Crystallization Modes of Poly(3-dodecylthiophene)-Based Block Copolymers Depend on Regioregularity and Morphology. <i>Macromolecules</i> , <b>2018</b> , 51, 9276-9283	5.5	11
210	Selectively Deuterated Poly( $\epsilon$ -caprolactone)s: Synthesis and Isotope Effects on the Crystal Structures and Properties. <i>Macromolecules</i> , <b>2018</b> , 51, 9393-9404	5.5	10
209	Origin of Broad Emission Spectra in InP Quantum Dots: Contributions from Structural and Electronic Disorder. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 15791-15803	16.4	81
208	Unique p-n Heterostructured Water-Borne Nanoparticles Exhibiting Impressive Charge-Separation Ability. <i>ChemSusChem</i> , <b>2018</b> , 11, 1628-1638	8.3	9
207	Molecular and morphological characterization of midblock-sulfonated styrenic triblock copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2017</b> , 55, 490-497	2.6	2
206	Operando Grazing Incidence Small-Angle X-ray Scattering/X-ray Diffraction of Model Ordered Mesoporous Lithium-Ion Battery Anodes. <i>ACS Nano</i> , <b>2017</b> , 11, 1443-1454	16.7	29
205	Sequential Infiltration Synthesis for the Design of Low Refractive Index Surface Coatings with Controllable Thickness. <i>ACS Nano</i> , <b>2017</b> , 11, 2521-2530	16.7	59
204	New Forms of CdSe: Molecular Wires, Gels, and Ordered Mesoporous Assemblies. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3368-3377	16.4	13
203	Hydrothermal Conditioning of Physical Hydrogels Prepared from a Midblock-Sulfonated Multiblock Copolymer. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1600666	4.8	10
202	Modulating Nanoparticle Superlattice Structure Using Proteins with Tunable Bond Distributions. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1754-1757	16.4	41
201	Understanding and Curing Structural Defects in Colloidal GaAs Nanocrystals. <i>Nano Letters</i> , <b>2017</b> , 17, 2094-2101	11.5	27

200	Stable colloids in molten inorganic salts. <i>Nature</i> , <b>2017</b> , 542, 328-331	50.4	107
199	Epitaxy: Programmable Atom Equivalents Versus Atoms. <i>ACS Nano</i> , <b>2017</b> , 11, 180-185	16.7	30
198	Manipulating the ABCs of self-assembly via low-block polymer design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 6462-6467	11.5	43
197	Conjugated Ladder Polymers by a Cyclopentannulation Polymerization. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5801-5807	16.4	61
196	Effects of Grafting Density on Block Polymer Self-Assembly: From Linear to Bottlebrush. <i>ACS Nano</i> , <b>2017</b> , 11, 11632-11641	16.7	72
195	Three-Dimensional Microphase Separation and Synergistic Permeability in Stacked Lipid-Polymer Hybrid Membranes. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9120-9132	9.6	14
194	The Role of Repulsion in Colloidal Crystal Engineering with DNA. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 16528-16535	16.4	20
193	Advanced smart-photosensitizers for more effective cancer treatment. <i>Biomaterials Science</i> , <b>2017</b> , 6, 79-90	7.4	56
192	Colloidal nanoparticle size control: experimental and kinetic modeling investigation of the ligand-metal binding role in controlling the nucleation and growth kinetics. <i>Nanoscale</i> , <b>2017</b> , 9, 13772-13785	7.7	104
191	Altering DNA-Programmable Colloidal Crystallization Paths by Modulating Particle Repulsion. <i>Nano Letters</i> , <b>2017</b> , 17, 5126-5132	11.5	27
190	Bicomponent Block Copolymers Derived from One or More Random Copolymers as an Alternative Route to Controllable Phase Behavior. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1700207	4.8	15
189	Structural Investigation of Cesium Lead Halide Perovskites for High-Efficiency Quantum Dot Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 4140-4147	6.4	33
188	Rapid Synthesis of Nanoporous Conformal Coatings via Plasma-Enhanced Sequential Infiltration of a Polymer Template. <i>ACS Omega</i> , <b>2017</b> , 2, 7812-7819	3.9	15
187	Gyroid Structures at Highly Asymmetric Volume Fractions by Blending of ABC Triblock Terpolymer and AB Diblock Copolymer. <i>Macromolecules</i> , <b>2017</b> , 50, 9008-9014	5.5	16
186	Design, Synthesis, and Self-Assembly of Polymers with Tailored Graft Distributions. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17683-17693	16.4	79
185	Solid state microwave synthesis of highly crystalline ordered mesoporous hausmannite Mn <sub>3</sub> O <sub>4</sub> films. <i>CrystEngComm</i> , <b>2017</b> , 19, 4294-4303	3.3	12
184	Intermolecular Structural Change for Thermoswitchable Polymeric Photosensitizer. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10734-7	16.4	52
183	Enzymatically Controlled Vacancies in Nanoparticle Crystals. <i>Nano Letters</i> , <b>2016</b> , 16, 5114-9	11.5	2



182	Phase-Change Thermoplastic Elastomer Blends for Tunable Shape Memory by Physical Design. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 12590-12597	3.9	25
181	Tunable Oleo-Furan Surfactants by Acylation of Renewable Furans. <i>ACS Central Science</i> , <b>2016</b> , 2, 820-824	6.8	41
180	Olefinic Thermoplastic Elastomer Gels: Combining Polymer Crystallization and Microphase Separation in a Selective Solvent. <i>ACS Macro Letters</i> , <b>2016</b> , 5, 1273-1277	6.6	7
179	Total X-Ray Scattering and Small-Angle X-ray Scattering for Determining the Structures, Sizes, Shapes, and Aggregation Extents of Iron (Hydr)oxide Nanoparticles <b>2016</b> , 371-396		3
178	Plasmonic Metallurgy Enabled by DNA. <i>Advanced Materials</i> , <b>2016</b> , 28, 2790-4	24	24
177	Water-induced nanochannel networks in self-assembled block ionomers. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 101907	3.4	11
176	Assessment of Anisotropic Semiconductor Nanorod and Nanoplatelet Heterostructures with Polarized Emission for Liquid Crystal Display Technology. <i>ACS Nano</i> , <b>2016</b> , 10, 5769-81	16.7	154
175	Small Angle X-ray Scattering for Nanoparticle Research. <i>Chemical Reviews</i> , <b>2016</b> , 116, 11128-80	68.1	477
174	A Solvent-Vapor Approach toward the Control of Block Ionomer Morphologies. <i>Macromolecules</i> , <b>2016</b> , 49, 3126-3137	5.5	29
173	The Significance of Multivalent Bonding Motifs and "Bond Order" in DNA-Directed Nanoparticle Crystallization. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 6119-22	16.4	18
172	Direct Observation on Spin-Coating Process of PS-b-P2VP Thin Films. <i>Macromolecules</i> , <b>2016</b> , 49, 3471-3475	3.5	22
171	Oxidation Induced Doping of Nanoparticles Revealed by in Situ X-ray Absorption Studies. <i>Nano Letters</i> , <b>2016</b> , 16, 3738-47	11.5	22
170	Fractal aggregation and disaggregation of newly formed iron(III) (hydr)oxide nanoparticles in the presence of natural organic matter and arsenic. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 647-656	7.1	16
169	Exploring the zone of anisotropy and broken symmetries in DNA-mediated nanoparticle crystallization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 10485-90	11.5	41
168	Structural Match of Heterogeneously Nucleated Mn(OH)(s) Nanoparticles on Quartz under Various pH Conditions. <i>Langmuir</i> , <b>2016</b> , 32, 10735-10743	4	9
167	Targeted multimodal nano-reporters for pre-procedural MRI and intra-operative image-guidance. <i>Biomaterials</i> , <b>2016</b> , 109, 69-77	15.6	30
166	Evaluation of Calcium Phosphate Nucleation Kinetics and Pathways during Intra- and Extrafibrillar Mineralization of Collagen Matrices. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 5359-5366	3.5	23
165	Scattering functions of polyhedra. <i>Journal of Applied Crystallography</i> , <b>2015</b> , 48, 565-577	3.8	17



164	Fischer-Tropsch Synthesis at a Low Pressure on Subnanometer Cobalt Oxide Clusters: The Effect of Cluster Size and Support on Activity and Selectivity. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 11210-11216	3.8	24
163	Small-angle scattering of particle assemblies. <i>Journal of Applied Crystallography</i> , <b>2015</b> , 48, 1172-1182	3.8	31
162	Heterogeneous nucleation and shape transformation of multicomponent metallic nanostructures. <i>Nature Materials</i> , <b>2015</b> , 14, 215-23	27	155
161	Coordination Assembly of Discoid Nanoparticles. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9094-9098	3.6	3
160	Coordination Assembly of Discoid Nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 8966-70	16.4	21
159	Anisotropic nanoparticle complementarity in DNA-mediated co-crystallization. <i>Nature Materials</i> , <b>2015</b> , 14, 833-9	27	134
158	Innentitelbild: Coordination Assembly of Discoid Nanoparticles (Angew. Chem. 31/2015). <i>Angewandte Chemie</i> , <b>2015</b> , 127, 8976-8976	3.6	
157	Enhancement of local piezoresponse in polymer ferroelectrics via nanoscale control of microstructure. <i>ACS Nano</i> , <b>2015</b> , 9, 1809-19	16.7	53
156	Transition behavior of asymmetric polystyrene- b -poly(2-vinylpyridine) films: A stable hexagonally modulated layer structure. <i>Polymer</i> , <b>2015</b> , 60, 32-39	3.9	24
155	Reaction Mechanism for Direct Propylene Epoxidation by Alumina-Supported Silver Aggregates: The Role of the Particle/Support Interface. <i>ACS Catalysis</i> , <b>2014</b> , 4, 32-39	13.1	69
154	Improving brush polymer infrared one-dimensional photonic crystals via linear polymer additives. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17374-7	16.4	103
153	Size- and support-dependent evolution of the oxidation state and structure by oxidation of subnanometer cobalt clusters. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 8477-84	2.8	15
152	Importance of the DNA "bond" in programmable nanoparticle crystallization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 14995-5000	11.5	44
151	Aluminum affects heterogeneous Fe(III) (Hydr)oxide nucleation, growth, and ostwald ripening. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 299-306	10.3	30
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15	A Soluble Photoreactive Polyimide Bearing the Coumarin Chromophore in the Side Group: Photoreaction, Photoinduced Molecular Reorientation, and Liquid-Crystal Alignability in Thin Films. <i>Langmuir</i> , <b>2003</b> , 19, 10381-10389	4	52
14	Photoreactions and Photoinduced Molecular Orientations of Films of a Photoreactive Polyimide and Their Alignment of Liquid Crystals. <i>Macromolecules</i> , <b>2003</b> , 36, 6527-6536	5.5	82
13	Photoreaction and Molecular Reorientation in Films of Novel Photosensitive Polyesters Containing n-Alkyl Side Groups and 1,4-Phenylenediacryloyl Units in the Backbone. <i>Langmuir</i> , <b>2003</b> , 19, 6039-6049	4	25
12	Sequence of Rubbing-Induced Molecular Segmental Reorientations in the Nanoscale Film Surface of a Brush Polymer Rod. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 11911-6	3.4	27
11	Rubbing-Induced Surface Morphology and Polymer Segmental Reorientations of a Model Brush Polyimide and Interactions with Liquid Crystals at the Surface. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 3105-3112	8.6	58
10	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. <i>Langmuir</i> , <b>2003</b> , 19, 9459-9465	4	36
9	Phase Diagram Constructed from the HPLC Fractions of a Polystyrene-b-polyisoprene Prepared by Anionic Polymerization. <i>Macromolecules</i> , <b>2003</b> , 36, 4662-4666	5.5	34
8	New Clues to the Factors Governing the Perpendicular Alignment of Liquid Crystals on Rubbed Polystyrene Film Surfaces. <i>Langmuir</i> , <b>2003</b> , 19, 8735-8743	4	43
7	Time-resolved SAXS studies on crystallization behavior of poly(ethylene isophthalate-co-ethylene terephthalate)s. <i>Macromolecular Symposia</i> , <b>2002</b> , 190, 173-184	0.8	6
6	Current status of the synchrotron small-angle X-ray scattering Station BL4C1 at the Pohang Accelerator Laboratory. <i>Macromolecular Research</i> , <b>2002</b> , 10, 2-12	1.9	125
5	Surface Morphology, Molecular Reorientation, and Liquid Crystal Alignment Properties of Rubbed Nanofilms of a Well-Defined Brush Polyimide with a Fully Rodlike Backbone. <i>Macromolecules</i> , <b>2002</b> , 35, 10119-10130	5.5	92
4	Synthesis and Non-Isothermal Crystallization Characteristics of Poly[(ethylene)-co-(trimethylene terephthalate)]s. <i>Macromolecular Chemistry and Physics</i> , <b>2001</b> , 202, 3072-3080	2.6	36
3	Time-Resolved Synchrotron X-ray Diffraction and Infrared Spectroscopic Studies of Imidization and Structural Evolution in a Microscaled Film of PMDA-3,4-EDA Poly(amic acid). <i>Langmuir</i> , <b>2001</b> , 17, 7842-7850	4.5	59

2	Poly(ethylene-co-ethyleneoxyethylene terephthalate)s: synthesis and non-isothermal crystallization behavior. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 453-463	2.6	39
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