

# Seungho Lee

## List of Publications by Year in descending order

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84  
papers

1,560  
citations

304743

22  
h-index

361022

35  
g-index

84  
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84  
docs citations

84  
times ranked

1632  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modification of EDC method for increased labeling efficiency and characterization of low-content protein in gum acacia using asymmetrical flow field-flow fractionation coupled with multiple detectors. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6313-6320.	3.7	2
2	Methodology of measurement of ionic strength based on field-flow fractionation. <i>Journal of Chromatography A</i> , 2021, 1658, 462591.	3.7	2
3	Study on the Dependence of Sun Protection Factor on Particle Size Distribution of Mica Using Gravitational Field-Flow Fractionation. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 66-72.	1.9	4
4	Synthesis and characterization of elution behavior of nonspherical gold nanoparticles in asymmetrical flow field-flow fractionation (AsFIFFF). <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	23
5	Fractionation of Nanoparticle Matter in Red Wines Using Asymmetrical Flow Field-Flow Fractionation. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 14564-14576.	5.2	7
6	Analysis of Blood Ethanol Pharmacokinetics in Hypoxia-Exposed Rabbit. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 498-503.	1.9	0
7	Comparison between conventional and frit-inlet channels in separation of biopolymers by asymmetric flow field-flow fractionation. <i>Analyst</i> , 2019, 144, 4559-4568.	3.5	11
8	Smart bactericidal filter containing biodegradable polymers for crystal violet dye adsorption. <i>Cellulose</i> , 2019, 26, 9179-9206.	4.9	49
9	Fractionation and characterization of starch granules using field-flow fractionation (FFF) and differential scanning calorimetry (DSC). <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3665-3674.	3.7	14
10	The shape effect on the retention behaviors of ellipsoidal particles in field-flow fractionation: Theoretical model derivation considering the steric-entropic mode. <i>Journal of Chromatography A</i> , 2019, 1587, 189-196.	3.7	3
11	Characterization of non-solvent precipitated starch using asymmetrical flow field-flow fractionation coupled with multiple detectors. <i>Carbohydrate Polymers</i> , 2019, 206, 21-28.	10.2	6
12	Study on oligomerization of glutamate decarboxylase from <i>Lactobacillus brevis</i> using asymmetrical flow field-flow fractionation (AF4) with light scattering techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 451-458.	3.7	6
13	Field-flow fractionation: A gentle separation and characterization technique in biomedicine. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 231-238.	11.4	47
14	Study on dispersibility of thermally stable carbon black particles in ink using asymmetric flow field-flow fractionation (AsFIFFF). <i>Microchemical Journal</i> , 2018, 142, 167-174.	4.5	9
15	Feasibility study for combination of field-flow fractionation (FFF)-based separation of size-coded particle probes with amplified surface enhanced Raman scattering (SERS) tagging for simultaneous detection of multiple miRNAs. <i>Journal of Chromatography A</i> , 2018, 1556, 97-102.	3.7	11
16	Study on external factors affecting egg yolk plasma by asymmetrical flow field-flow fractionation. <i>Food Research International</i> , 2017, 94, 13-19.	6.2	7
17	Characterization of the molar mass distribution of macromolecules in beer for different mashing processes using asymmetric flow field-flow fractionation (AF4) coupled with multiple detectors. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 4551-4558.	3.7	14
18	Explicit role of ionic strength in retention behavior of polystyrene latex particles in sedimentation field-flow fractionation: Slip boundary model. <i>Journal of Chromatography A</i> , 2017, 1528, 75-82.	3.7	1

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19	Optimisation, evaluation and application of asymmetrical flow field-flow fractionation with single particle inductively coupled plasma mass spectrometry (SP-ICP-MS) to characterise silver nanoparticles in environmental media. <i>Microchemical Journal</i> , 2016, 129, 219-230.	4.5	26
20	Asymmetrical flow field-flow fractionation coupled with multiple detections: A complementary approach in the characterization of egg yolk plasma. <i>Journal of Chromatography A</i> , 2016, 1465, 165-174.	3.7	7
21	Analysis of fucosylation in liver-secreted N-glycoproteins from human hepatocellular carcinoma plasma using liquid chromatography with tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7761-7774.	3.7	15
22	Synthesis of Silica Nanoparticles for the Manufacture of Porous Carbon Membrane and Particle Size Analysis by Sedimentation Field-Flow Fractionation. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 1831-1837.	1.9	3
23	Size Monitoring in the Synthesis of Silica Nanoparticles Using Asymmetrical Flow Field-Flow Fractionation (AF4). <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 335-343.	1.9	2
24	Study on aggregation behavior of low density lipoprotein in hen egg yolk plasma by asymmetrical flow field-flow fractionation coupled with multiple detectors. <i>Food Chemistry</i> , 2016, 192, 228-234.	8.2	18
25	Surface Modification of Carbon Black Using Polymer Resin Synthesized by a Phenyl Radical Reaction. <i>Journal of the Korean Chemical Society</i> , 2016, 60, 286-291.	0.2	6
26	Factors affecting measurement of channel thickness in asymmetrical flow field-flow fractionation. <i>Journal of Chromatography A</i> , 2015, 1393, 115-121.	3.7	19
27	Feasibility of asymmetrical flow field-flow fractionation as a method for detecting protective antigen by direct recognition of size-increased target-captured nanoprobe. <i>Journal of Chromatography A</i> , 2015, 1422, 239-246.	3.7	7
28	Sedimentation field-flow fractionation for characterization of citric acid-modified H <sup>2</sup> zeolite particles: Effect of particle dispersion and carrier composition. <i>Journal of Chromatography A</i> , 2015, 1422, 253-259.	3.7	6
29	Study on aggregation behavior of Cytochrome C-conjugated silver nanoparticles using asymmetrical flow field-flow fractionation. <i>Talanta</i> , 2015, 132, 939-944.	5.5	20
30	Retention behavior of microparticles in gravitational field-flow fractionation (GrFFF): Effect of ionic strength. <i>Talanta</i> , 2015, 132, 945-953.	5.5	6
31	Characterization of Silver Nanoparticles under Environmentally Relevant Conditions Using Asymmetrical Flow Field-Flow Fractionation (AF4). <i>PLoS ONE</i> , 2015, 10, e0143149.	2.5	35
32	Effect of size of Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles on electrochemical performance of screen printed electrode using sedimentation field-flow fractionation. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	7
33	<sup>13</sup> C-ray synthesis and size characterization of CdS quantum dot (QD) particles using flow and sedimentation field-flow fractionation (FFF). <i>Microchemical Journal</i> , 2014, 117, 34-39.	4.5	15
34	Study on antidiabetic activity of wheat and barley starch using asymmetrical flow field-flow fractionation coupled with multiangle light scattering. <i>Journal of Chromatography A</i> , 2014, 1340, 115-120.	3.7	30
35	Characterization of Fly Ash by Field-Flow Fractionation Combined with SPLIT Fractionation and Compositional Analysis by ICP-OES. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 69-75.	1.9	4
36	Molecular characterization of solution styrene-butadiene rubber: Thermal field-flow fractionation/multi-angle light scattering studies. <i>Journal of Chromatography A</i> , 2013, 1314, 306-312.	3.7	4

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37	Study on steric transition in asymmetrical flow field-flow fractionation and application to characterization of high-energy material. <i>Journal of Chromatography A</i> , 2013, 1304, 211-219.	3.7	29
38	Determination of size distribution of colloidal TiO <sub>2</sub> nanoparticles using sedimentation field-flow fractionation combined with single particle mode of inductively coupled plasma-mass spectrometry. <i>Microchemical Journal</i> , 2013, 110, 636-642.	4.5	35
39	Preparation and characterization of cyclo-1,3,5-trimethylene-2,4,6-trinitramine (RDX) powder: Comparison of microscopy, dynamic light scattering and field-flow fractionation for size characterization. <i>Powder Technology</i> , 2013, 235, 814-822.	4.2	23
40	Monitoring of Mixed Culture of <i>Saccharomyces cerevisiae</i> and <i>Acetobacter aceti</i> Using Gravitation Field-flow Fractionation and Gas Chromatography. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 3877-3880.	1.9	1
41	Particle Size Analysis of Chemical Mechanical Polishing (CMP) Powder Using Sedimentation Field-Flow Fractionation (SdFFF). <i>Journal of the Korean Chemical Society</i> , 2013, 57, 159-164.	0.2	0
42	Synthesis and Size Characterization of Silica Nanospheres Using Sedimentation Field-Flow Fractionation (SdFFF). <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 610-617.	0.9	5
43	Asymmetrical Flow Field-Flow Fractionation for Characterization of Cyclotrimethylene Trinitramine (RDX) Particles Prepared by Supercritical Anti-Solvent Recrystallization. <i>Chromatographia</i> , 2012, 75, 903-911.	1.3	8
44	Effect of Surfactant on Retention Behaviors of Polystyrene Latex Particles in Sedimentation Field-Flow Fractionation: Effective Boundary Slip Model Approach. <i>Langmuir</i> , 2012, 28, 10672-10681.	3.5	9
45	Application of flow field-flow fractionation (F4FFF) for size characterization of carbon black particles in ink. <i>Microchemical Journal</i> , 2012, 104, 44-48.	4.5	18
46	Characterization of Asian dust using steric mode of sedimentation field-flow fractionation (Sd/StFFF). <i>Analytical Science and Technology</i> , 2012, 25, 476-482.	0.3	3
47	Effect of Carrier Fluid Viscosity on Retention Time and Resolution in Gravitational Field-Flow Fractionation. <i>Analytical Chemistry</i> , 2011, 83, 3343-3351.	6.5	8
48	Study on elution behavior of poly(amidoamine) dendrimers and their interaction with bovine serum albumin in asymmetrical flow field-flow fractionation. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 1581-1588.	3.7	16
49	Extraction of hyaluronic acid (HA) from rooster comb and characterization using flow field-flow fractionation (F4FFF) coupled with multiangle light scattering (MALS). <i>Journal of Separation Science</i> , 2010, 33, 3530-3536.	2.5	41
50	Implementation of splitter-less SPLITT fractionation and its application to large scale-fractionation of sea sediment. <i>Microchemical Journal</i> , 2010, 95, 11-19.	4.5	11
51	Carboxymethylation of corn starch and characterization using asymmetrical flow field-flow fractionation coupled with multiangle light scattering. <i>Journal of Chromatography A</i> , 2010, 1217, 4623-4628.	3.7	47
52	REMOVAL OF AGGREGATES FROM MICRON-SIZED POLYMETHYL METHACRYLATE (PMMA) LATEX BEADS USING FULL FEED DEPLETION MODE OF GRAVITATIONAL SPLITT FRACTIONATION (FFD-GSF). <i>Journal of Liquid Chromatography and Related Technologies</i> , 2009, 33, 27-36.	1.0	7
53	Surface-initiated atom-transfer radical polymerization of 3-O-methacryloyl-1,2:5,6-di-O-isopropylidene- $\alpha$ -D-glucofuranoside onto gold surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 735-740.	4.0	10
54	Effect of Reaction Parameters on Size Distribution of Emulsion-Polymerized Polystyrene Latex Beads Studied by Gravitational Flow-Flow Fractionation (GrFFF). <i>Journal of Liquid Chromatography and Related Technologies</i> , 2009, 32, 909-922.	1.0	7

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55	Radiolytic synthesis of poly(styrene-co-divinylbenzene)â€“clay nanocomposite. <i>Journal of Industrial and Engineering Chemistry</i> , 2008, 14, 417-422.	5.8	10
56	Radiolytic synthesis of Pd-M (M=Ag, Ni, and Cu)/C catalyst and their use in Suzuki-type and Heck-type reaction. <i>Journal of Industrial and Engineering Chemistry</i> , 2008, 14, 449-456.	5.8	53
57	Size characterization of drug-loaded polymeric core/shell nanoparticles using asymmetrical flow field-flow fractionation. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 2183-2188.	3.7	23
58	Different elution modes and field programming in gravitational field-flow fractionation. <i>Journal of Chromatography A</i> , 2008, 1209, 206-211.	3.7	9
59	Separation and Quantitation of Silver Nanoparticles using Sedimentation Fieldâ€“Flow Fractionation. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007, 30, 2533-2544.	1.0	19
60	Radiolytic synthesis of Ag-loaded polystyrene (Ag-PS) nanoparticles and their antimicrobial efficiency against <i>Staphylococcus aureus</i> and <i>Klebsiella pneumoniae</i> . <i>Macromolecular Research</i> , 2007, 15, 285-290.	2.4	9
61	Template-directed synthesis of highly ordered nanoporous graphitic carbon nitride through polymerization of cyanamide. <i>Applied Surface Science</i> , 2007, 253, 5656-5659.	6.1	86
62	Repeatability and reproducibility of thermal field-flow fractionation in molecular weight determination of processed natural rubber. <i>Analyst</i> , 2006, 131, 429-433.	3.5	13
63	Synthesis of Ag and Agâ€“SiO <sub>2</sub> nanoparticles by $\gamma$ -irradiation and their antibacterial and antifungal efficiency against <i>Salmonella enterica</i> serovar Typhimurium and <i>Botrytis cinerea</i> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 275, 228-233.	4.7	90
64	Preparation of Agâ€“PS and Agâ€“PSS particles by $\gamma$ -irradiation and their antimicrobial efficiency against <i>Staphylococcus aureus</i> ATCC 6538 and <i>Klebsiella pneumoniae</i> ATCC 4352. <i>Macromolecular Research</i> , 2006, 14, 194-198.	2.4	16
65	Purification and characterization of a biosurfactant produced by <i>Pseudomonas</i> sp. G11 by asymmetrical flow field-flow fractionation (AsFIFFF). <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 2027-2033.	3.7	7
66	Synthesis and Characterization of Nonlinear Optical Polymers Containing Carbazole and Disperse Red Dye. <i>Journal of Macromolecular Science - Physics</i> , 2006, 45, 859-870.	1.0	4
67	Combination of gravitational SPLITT fractionation and field-flow fractionation for size-sorting and characterization of sea sediment. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 1299-1304.	3.7	15
68	Preparation of Polymer-stabilized Palladiumâ€“silver Bimetallic Nanoparticles by $\gamma$ -irradiation and their Catalytic Properties for Hydrogenation of <i>cis,cis</i> -1,3-Cyclooctadiene. <i>Catalysis Letters</i> , 2005, 105, 59-65.	2.6	16
69	Size-based analysis of incinerator fly ash using gravitational SPLITT fractionation, sedimentation field-flow fractionation, and inductively coupled plasma-atomic emission spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 746-752.	3.7	10
70	Increased size-sorting performance in gravitational SPLITT by using a pinched sample inlet design. <i>Journal of Separation Science</i> , 2003, 26, 1675-1682.	2.5	5
71	Development of asymmetrical flow field-flow fractionationâ€“multi angle laser light scattering analysis for molecular mass characterization of cationic potato amylopectin. <i>Journal of Chromatography A</i> , 2003, 1011, 111-123.	3.7	50
72	MICROWAVE-ASSISTED EXTRACTION OF POLYCHLORINATED BIPHENYLS AND POLYCHLORINATED DIBENZODIOXINS FROM FLY ASH. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2002, 25, 899-911.	1.0	4

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73	Size Characterization of Incinerator Fly Ash Using Sedimentation/Steric Field-Flow Fractionation. <i>Analytical Chemistry</i> , 2002, 74, 848-855.	6.5	15
74	SAMPLE PREPARATION FOR SIZE ANALYSIS OF DIESEL SOOT PARTICLES USING FIELD-FLOW FRACTIONATION. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2001, 24, 1935-1951.	1.0	1
75	Size Analysis of Automobile Soot Particles Using Field-Flow Fractionation. <i>Environmental Science &amp; Technology</i> , 2001, 35, 1005-1012.	10.0	22
76	Template synthesis of polymer-insulated colloidal gold nanowires with reactive ends. <i>Chemical Communications</i> , 2000, , 2445-2446.	4.1	49
77	Size Determination of Diesel Soot Particles Using Flow and Sedimentation Field-Flow Fractionation. <i>Analytical Chemistry</i> , 1999, 71, 3265-3272.	6.5	23
78	Application of thermal field-flow fractionation for characterization of industrial polymers. <i>Journal of Separation Science</i> , 1997, 9, 281-286.	1.0	13
79	Sedimentation/Steric field-flow fractionation: A powerful technique for obtaining particle size distribution. <i>Journal of Separation Science</i> , 1997, 9, 565-570.	1.0	15
80	Determination of Mean Diameter and Particle Size Distribution of Acrylate Latex Using Flow Field-Flow Fractionation, Photon Correlation Spectroscopy, and Electron Microscopy. <i>Analytical Chemistry</i> , 1996, 68, 1545-1549.	6.5	52
81	Determination of Molecular Weight and Gel Content of Natural Rubber Using Thermal Field-Flow Fractionation. <i>Macromolecules</i> , 1995, 28, 6354-6356.	4.8	35
82	CHARACTERIZATION OF HYDRODYNAMIC LIFT FORCES BY FIELD-FLOW FRACTIONATION. INERTIAL AND NEAR-WALL LIFT FORCES. <i>Chemical Engineering Communications</i> , 1994, 130, 143-166.	2.6	97
83	Particle separation and characterization by sedimentation/cyclical-field field-flow fractionation. <i>Analytical Chemistry</i> , 1988, 60, 1129-1135.	6.5	28
84	Experimental observation of steric transition phenomena in sedimentation field-flow fractionation. <i>Analytical Chemistry</i> , 1988, 60, 2328-2333.	6.5	47