

Doo Soo Chung

List of Publications by Year in descending order

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109
papers

3,781
citations

126907

33
h-index

138484

58
g-index

109
all docs

109
docs citations

109
times ranked

3848
citing authors

#	ARTICLE	IF	CITATIONS
1	On the nucleation and growth of amyloid beta-protein fibrils: detection of nuclei and quantitation of rate constants.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 1125-1129.	7.1	781
2	pKaValues of Guanine in Water:Â Density Functional Theory Calculations Combined with Poissonâ Boltzmann Continuumâ Solvation Model. Journal of Physical Chemistry B, 2003, 107, 344-357.	2.6	193
3	Filamentous, helical, and tubular microstructures during cholesterol crystallization from bile. Evidence that cholesterol does not nucleate classic monohydrate plates.. Journal of Clinical Investigation, 1992, 90, 1155-1160.	8.2	146
4	Guest-induced reorganization of a self-assembled Pd(II) complex. Tetrahedron Letters, 1998, 39, 873-876.	1.4	122
5	First Principles Calculations of the Tautomers and pKaValues of 8-Oxoguanine:Â Implications for Mutagenicity and Repair. Chemical Research in Toxicology, 2002, 15, 1023-1035.	3.3	106
6	Investigation of the factors influencing the release rates of cyclosporin A-loaded micro- and nanoparticles prepared by high-pressure homogenizer. Journal of Controlled Release, 2002, 84, 115-123.	9.9	84
7	A Bifunctional Molecule as an Artificial Flavin Mononucleotide Cyclase and a Chemosensor for Selective Fluorescent Detection of Flavins. Journal of the American Chemical Society, 2009, 131, 10107-10112.	13.7	78
8	Single Drop Microextraction Using Commercial Capillary Electrophoresis Instruments. Analytical Chemistry, 2009, 81, 225-230.	6.5	78
9	Single-drop microextraction as a powerful pretreatment tool for capillary electrophoresis: A review. Analytica Chimica Acta, 2012, 739, 14-24.	5.4	60
10	Liquid-Phase Microextraction as an On-Line Preconcentration Method in Capillary Electrophoresis. Analytical Chemistry, 2004, 76, 855-858.	6.5	59
11	Acid Dissociation Constants of Melamine Derivatives from Density Functional Theory Calculations. Journal of Physical Chemistry A, 2009, 113, 13036-13040.	2.5	58
12	Near infrared dye indocyanine green doped silica nanoparticles for biological imaging. Talanta, 2012, 99, 387-393.	5.5	58
13	Large-volume stacking in capillary electrophoresis using a methanol run buffer. Electrophoresis, 2002, 23, 49.	2.4	56
14	Molecular Lens of the Nonresonant Dipole Force. Physical Review Letters, 2000, 85, 2705-2708.	7.8	55
15	Controlling Diaza-Cope Rearrangement Reactions with Resonance-Assisted Hydrogen Bonds. Journal of the American Chemical Society, 2003, 125, 15276-15277.	13.7	53
16	On-line sample cleanup and chiral separation of gemifloxacin in a urinary solution using chiral crown ether as a chiral selector in microchip electrophoresis. Journal of Chromatography A, 2004, 1055, 241-245.	3.7	52
17	Chiral separation of gemifloxacin in sodium-containing media using chiral crown ether as a chiral selector by capillary and microchip electrophoresis. Electrophoresis, 2002, 23, 972-977.	2.4	47
18	Selective preconcentration of amino acids and peptides using single drop microextraction in-line coupled with capillary electrophoresis. Journal of Chromatography A, 2010, 1217, 3357-3361.	3.7	47

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19	Capillary electrophoresis of nonprotein and protein amino acids without derivatization. <i>Electrophoresis</i> , 2000, 21, 930-934.	2.4	46
20	Practical sample pretreatment techniques coupled with capillary electrophoresis for real samples in complex matrices. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 122, 115702.	11.4	46
21	A molecular basis behind heterophylly in an amphibious plant, <i>Ranunculus trichophyllus</i> . <i>PLoS Genetics</i> , 2018, 14, e1007208.	3.5	44
22	Gas Phase Proton Affinity, Basicity, and pK _a Values for Nitrogen Containing Heterocyclic Aromatic Compounds. <i>Bulletin of the Korean Chemical Society</i> , 2005, 26, 585-588.	1.9	44
23	Determination of homocysteine and other thiols in human plasma by capillary electrophoresis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1997, 15, 1435-1441.	2.8	43
24	Chiral counter-current chromatography of gemifloxacin guided by capillary electrophoresis using (+)-(18-crown-6)-tetracarboxylic acid as a chiral selector. <i>Journal of Chromatography A</i> , 2004, 1045, 119-124.	3.7	43
25	Sensitive arsenic analysis by carrier-mediated counter-transport single drop microextraction coupled with capillary electrophoresis. <i>Microchemical Journal</i> , 2013, 106, 220-225.	4.5	42
26	Single-drop microextraction in bioanalysis. <i>Bioanalysis</i> , 2011, 3, 799-815.	1.5	41
27	Separations based on the mechanical forces of light. <i>Analytica Chimica Acta</i> , 2006, 556, 97-103.	5.4	40
28	Molecular lens applied to benzene and carbon disulfide molecular beams. <i>Journal of Chemical Physics</i> , 2001, 114, 8293-8302.	3.0	39
29	Direct chiral analysis of primary amine drugs in human urine by single drop microextraction in-line coupled to CE. <i>Electrophoresis</i> , 2009, 30, 2905-2911.	2.4	38
30	Capillary electrophoresis of trace metals in highly saline physiological sample matrices. <i>Electrophoresis</i> , 2003, 24, 2788-2795.	2.4	37
31	Separation of a benzene and nitric oxide mixture by a molecule prism. <i>Journal of Chemical Physics</i> , 2003, 119, 8905-8909.	3.0	37
32	Large volume sample stacking in capillary electrophoresis of weakly acidic compounds using coated capillaries at high pH. <i>Analytica Chimica Acta</i> , 2003, 491, 173-179.	5.4	36
33	In-line coupling of two-phase single drop microextraction and large volume stacking using an electroosmotic flow pump in nonaqueous capillary electrophoresis. <i>Journal of Chromatography A</i> , 2009, 1216, 6466-6470.	3.7	35
34	Sensitive analysis of amino acids with carrier-mediated single drop microextraction in-line coupled with capillary electrophoresis. <i>Journal of Chromatography A</i> , 2011, 1218, 7227-7233.	3.7	35
35	Guest-induced binding site organization of self-assembled Pd(II) complexes. <i>Tetrahedron Letters</i> , 1999, 40, 531-534.	1.4	34
36	Transient isotachopheresis of highly saline trace metals under strong electroosmotic flow conditions. <i>Electrophoresis</i> , 2005, 26, 668-673.	2.4	33

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37	Amino acid recognition of pyridine bis(oxazoline)â€‘copper(II) complex in aqueous solvent. Tetrahedron Letters, 2003, 44, 4335-4338.	1.4	32
38	Highly sensitive chiral analysis of amino acids by in-line single drop microextraction and capillary electrophoresis with laser-induced fluorescence detection. Analytica Chimica Acta, 2010, 677, 37-42.	5.4	32
39	Tautomeric Equilibrium of Fluorescein in Solution: Ab Initio Calculations. Chemistry Letters, 2001, 30, 1316-1317.	1.3	31
40	Highâ€‘sensitivity capillary and microchip electrophoresis using electrokinetic supercharging. Journal of Separation Science, 2011, 34, 2790-2799.	2.5	31
41	Protein analysis with large volume sample stacking with an electrosmotic flow pump: a potential approach for proteomics. Microchemical Journal, 2001, 70, 247-253.	4.5	30
42	Large volume stacking using an EOF pump in NACEâ€‘MS. Electrophoresis, 2009, 30, 1046-1051.	2.4	30
43	In Vivo Imaging of Sentinel Nodes Using Fluorescent Silica Nanoparticles in Living Mice. Molecular Imaging and Biology, 2010, 12, 155-162.	2.6	30
44	Miniaturized LC in Molecular Omics. Analytical Chemistry, 2020, 92, 11485-11497.	6.5	30
45	Novel and simple headspace in-tube microextraction coupled with capillary electrophoresis. Journal of Chromatography A, 2014, 1346, 117-122.	3.7	28
46	Large-volume stacking in capillary electrophoresis using pH hysteresis of the electrosmotic flow in a bare fused-silica capillary. Electrophoresis, 2005, 26, 480-486.	2.4	26
47	Transient isotachopheresis of highly saline samples using a microchip. Sensors and Actuators B: Chemical, 2005, 104, 269-275.	7.8	26
48	Sensitive arsenic speciation by capillary electrophoresis using UV absorbance detection with on-line sample preconcentration techniques. Talanta, 2018, 181, 366-372.	5.5	26
49	Headspaceâ€‘single drop microextraction with a commercial capillary electrophoresis instrument. Electrophoresis, 2012, 33, 2961-2968.	2.4	25
50	Dual stacking of unbuffered saline samples, transient isotachopheresis plus induced pH junction focusing. Electrophoresis, 2003, 24, 1603-1611.	2.4	24
51	Studies on the Chemistry of Manganese Tricarbonyl Cations of Phenol and Cresols. Organometallics, 2002, 21, 3417-3425.	2.3	23
52	High-performance liquid chromatography with a column-switching system and capillary electrophoresis for the determination of ibuprofen in plasma. Biomedical Applications, 1998, 712, 153-160.	1.7	22
53	Double sample preconcentration by inâ€‘line coupled large volume single drop microextraction and sweeping in capillary electrophoresis. Electrophoresis, 2009, 30, 1953-1957.	2.4	22
54	On-chip immunoassay of a cardiac biomarker in serum using a polyester-toner microchip. Talanta, 2013, 109, 20-25.	5.5	22

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55	Micellar electrokinetic chromatography for the analysis of d-amygdalin and its epimer in apricot kernel. <i>Journal of Chromatography A</i> , 2000, 866, 253-259.	3.7	21
56	Liquid extraction surface analysis in-line coupled with capillary electrophoresis for direct analysis of a solid surface sample. <i>Analytica Chimica Acta</i> , 2014, 838, 45-50.	5.4	21
57	Fabricaton of Poly(dimethylsiloxane) Microlens for Laser-Induced Fluorescence Detection. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 5614-5617.	1.5	18
58	PDMS micro bead cage reactor for the detection of alpha feto protein (AFP). <i>Sensors and Actuators B: Chemical</i> , 2008, 128, 349-358.	7.8	18
59	A Doubly Signalâ€Amplified DNA Detection Method Based on Preâ€Complexed [Ru(bpy) ₃] ²⁺ â€Doped Silica Nanoparticles. <i>Chemistry - A European Journal</i> , 2010, 16, 11572-11575.	3.3	18
60	In-line coupling of single-drop microextraction with capillary electrophoresis-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8745-8752.	3.7	18
61	Competitive binding of a Tris run buffer with chiral crown ether in chiral capillary electrophoresis. <i>Electrophoresis</i> , 2000, 21, 3618-3624.	2.4	17
62	Bias-free pneumatic sample injection in microchip electrophoresis. <i>Journal of Chromatography A</i> , 2005, 1063, 253-256.	3.7	17
63	Synergistic coupling of in-line single-drop microextraction and on-line large-volume sample stacking for capillary electrophoresis/mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 1067-1073.	3.7	17
64	Light scattering from the liquid-vapor interface. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1987, 147, 387-406.	2.6	16
65	Comparative studies of various run buffers for chiral capillary electrophoresis using chiral crown ether as a chiral selector. <i>Electrophoresis</i> , 2001, 22, 4362-4367.	2.4	16
66	Cool pulsed molecular microbeam. <i>Review of Scientific Instruments</i> , 2004, 75, 146-150.	1.3	16
67	Applications of deep eutectic solvents to quantitative analyses of pharmaceuticals and pesticides in various matrices: a brief review. <i>Archives of Pharmacal Research</i> , 2020, 43, 900-919.	6.3	15
68	Calibration of migration times of variable salinity samples with internal standards in capillary electrophoresis. <i>Electrophoresis</i> , 2006, 27, 553-562.	2.4	13
69	DFT Calculation of Site-specific Acid Dissociation Constants of Purine Nucleobases. <i>Chemistry Letters</i> , 2007, 36, 1496-1497.	1.3	13
70	Highly sensitive analysis of catecholamines by counterâ€flow electrokinetic supercharging in the constant voltage mode. <i>Journal of Separation Science</i> , 2013, 36, 1973-1979.	2.5	13
71	Structure-Selective Recognition by Voltammetry:â€ Enantiomeric Determination of Amines Using Azophenolic Crowns in Aprotic Solvent. <i>Analytical Chemistry</i> , 2006, 78, 7597-7600.	6.5	12
72	Bowl-ShapedC3-Symmetric Receptor with Concave Phosphine Oxide with a Remarkable Selectivity for Asparagine Derivatives. <i>Organic Letters</i> , 2003, 5, 1431-1433.	4.6	11

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73	Direct visual detection of DNA based on the light scattering of silica nanoparticles on a human papillomavirus DNA chip. <i>Talanta</i> , 2009, 80, 967-973.	5.5	11
74	Novel colorimetric assay of LSD1 activity using gold nanoparticles. <i>Analyst</i> , 2012, 137, 2669.	3.5	11
75	Methodology for miniaturized CE and insulation on a silicon substrate. <i>Lab on A Chip</i> , 2001, 1, 143.	6.0	8
76	Analyte focusing by micelle collapse for liquid extraction surface analysis coupled with capillary electrophoresis of neutral analytes on a solid surface. <i>Electrophoresis</i> , 2019, 40, 2463-2468.	2.4	8
77	Application of capillary electrophoresis-nano-electrospray ionization-mass spectrometry for the determination of <i>N</i> -nitrosodimethylamine in pharmaceuticals. <i>Electrophoresis</i> , 2021, 42, 334-341.	2.4	8
78	Facile and highly efficient three-phase single drop microextraction in-line coupled with capillary electrophoresis. <i>Journal of Chromatography A</i> , 2021, 1655, 462520.	3.7	8
79	¹³ C nuclear magnetic relaxation under international extended rotational diffusion of the methyl group in liquid toluene. <i>Chemical Physics Letters</i> , 1982, 93, 499-503.	2.6	7
80	Slow Molecules Produced by Photodissociation. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 094302.	1.6	7
81	Spin-rotational relaxation study of molecular reorientation in the presence of internal extended rotational diffusion. <i>Chemical Physics Letters</i> , 1984, 108, 283-287.	2.6	6
82	Invited paper Fourier-transform heterodyne spectroscopy of liquid and solid surfaces. <i>Applied Physics B: Lasers and Optics</i> , 1996, 64, 1-13.	2.2	6
83	Relative Binding Affinities of Alkali Metal Cations to [18]Starand in Methanol: Computational and Experimental Studies. <i>Journal of Organic Chemistry</i> , 2000, 65, 536-542.	3.2	6
84	Capillary electrophoretic mobility shift assay for binding of DNA with NFAT3, a transcription factor from H9c2 cardiac myoblast cells. <i>Electrophoresis</i> , 2011, 32, 2174-2180.	2.4	6
85	Li ⁺ selective encapsulation through the intramolecular hydrogen-bonding gate. <i>Tetrahedron Letters</i> , 1997, 38, 8713-8716.	1.4	5
86	Free Energy Perturbation Studies on Enantiomeric Discrimination of Pyridino-18-Crown-6 Ethers. <i>Chemistry Letters</i> , 2000, 29, 1002-1003.	1.3	5
87	Poisson-Boltzmann Continuum Solvation Models for Nonaqueous Solvents I. 1-Octanol. <i>Chemistry Letters</i> , 2003, 32, 376-377.	1.3	5
88	Calcium Ion-Calixquinone Complexes Adsorbed on a Silver Electrode. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19981-19985.	3.1	5
89	Rotational-State-Dependent Dispersion of Molecules by Pulsed Optical Standing Waves. <i>Physical Review Letters</i> , 2015, 115, 223001.	7.8	5
90	Isotachophoretically Assisted On-Line Complexation of Trace Metal Ions in a Highly Saline Matrix for Capillary Electrophoresis. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 790-794.	1.9	5

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91	Molecular reorientation with internal extended rotational diffusion in liquids. <i>Journal of Chemical Physics</i> , 1982, 77, 5852-5853.	3.0	4
92	Light scattering from nonequilibrium interfaces. <i>International Journal of Thermophysics</i> , 1988, 9, 729-737.	2.1	4
93	Free Energy Perturbation and Molecular Dynamics Simulation Studies on the Enantiomeric Discrimination of Amines by Dimethyldiketopyridino-18-Crown-6. <i>Supramolecular Chemistry</i> , 2000, 12, 255-272.	1.2	4
94	Headspace in-tube microextraction coupled with micellar electrokinetic chromatography of neutral aromatic compounds. <i>Talanta</i> , 2016, 148, 729-733.	5.5	4
95	Single bubble in-tube microextraction coupled with capillary electrophoresis. <i>Electrophoresis</i> , 2022, 43, 456-463.	2.4	4
96	Spectral asymmetry in the light scattered from a nonequilibrium liquid interface. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 145, 348-352.	2.1	3
97	Separation of DNA with hydroxypropylmethyl cellulose and poly(ethylene oxide) by capillary gel electrophoresis. <i>Microchemical Journal</i> , 2005, 80, 121-125.	4.5	3
98	Density Functional Studies on the Solvation Free Energy of the Proton in Methanol. <i>Chemistry Letters</i> , 2002, 31, 1220-1221.	1.3	2
99	Extraction and sample preparation. <i>Journal of Chromatography A</i> , 2013, 1300, 1.	3.7	2
100	Introduction of a Capillary Gel Electrophoresis-Based Workflow for Biotherapeutics Characterization: Size, Charge, and N-Glycosylation Variant Analysis of Bamlanivimab, an Anti-SARS-CoV-2 Product. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 839374.	4.1	2
101	Fabricaton of PDMS microlens for LIF detection. , 2005, , .		1
102	Integrated CE chip - concentration and high-resolution cyclic CE technology. , 0, , .		0
103	Channel flow network at low electric field with high flow resistance compensation pattern. , 0, , .		0
104	PDMS micro bead cage reactor for the detection of alpha feto protein (AFP). , 0, , .		0
105	Efficient nonresonant dipole force on molecules by a tightly focused laser. <i>Frontiers in Physics</i> , 2014, 2, .	2.1	0
106	Removal of Sodium Ion and Chiral Analysis Using Crown Ether as a Chiral Selector in Microchip Electrophoresis. , 2002, , 575-577.		0
107	Microchip Eletrophoresis Integrated with Nanofluidic Sample Handling. , 2002, , 320-322.		0
108	Fluorescent Assay of Cyclic Nucleotide Phosphodiesterase Activity in a Neutral Aqueous Solution. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 31-32.	1.9	0

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109	Milli-Hertz Surface Spectroscopy. , 1989, , 216-219.		0