

# Shuping Bi

## List of Publications by Year in descending order

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105  
papers

1,716  
citations

304743

22  
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377865

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106  
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106  
docs citations

106  
times ranked

1665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Third-generation superoxide anion sensor based on superoxide dismutase directly immobilized by sol-gel thin film on gold electrode. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1479-1486.	10.1	87
2	Indirect determination of sulfide ions in water samples at trace level by anodic stripping voltammetry using mercury film electrode. <i>Analytical Methods</i> , 2010, 2, 154-158.	2.7	51
3	Direct voltammetry of catalase immobilized on silica sol-gel and cysteine modified gold electrode and its application. <i>Biosensors and Bioelectronics</i> , 2006, 22, 247-252.	10.1	50
4	Non-chromatographic speciation analysis of mercury by flow injection on-line preconcentration in combination with chemical vapor generation atomic fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 831-840.	2.9	50
5	Variation of Wheat Root Exudates under Aluminum Stress. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 10040-10046.	5.2	49
6	Solid phase extraction-spectrophotometric determination of dissolved aluminum in soil extracts and ground waters. <i>Journal of Inorganic Biochemistry</i> , 2003, 97, 173-178.	3.5	45
7	Density functional theory study of the aluminium(iii) hydrolysis in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2396.	2.8	45
8	The promotion effect of titania nanoparticles on the direct electrochemistry of lactate dehydrogenase sol-gel modified gold electrode. <i>Talanta</i> , 2008, 76, 1065-1069.	5.5	44
9	Resonance Rayleigh scattering determination of trace amounts of Al in natural waters and biological samples based on the formation of an Al(III)-morin-surfactant complex. <i>Analytica Chimica Acta</i> , 2004, 501, 89-97.	5.4	43
10	Electrochemical Studies of Guanosine in DMF and Detection of Its Radical Cation in a Scanning Electrochemical Microscopy Nanogap Experiment. <i>Journal of the American Chemical Society</i> , 2005, 127, 3690-3691.	13.7	42
11	Direct electrochemistry of lactate dehydrogenase immobilized on silica sol-gel modified gold electrode and its application. <i>Biosensors and Bioelectronics</i> , 2007, 23, 682-687.	10.1	38
12	A novel method for study of the aggregation of protein induced by metal ion aluminum(III) using resonance Rayleigh scattering technique. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 69, 71-77.	3.9	38
13	Study of the solvent effect on the quality of dodecanethiol self-assembled monolayers on polycrystalline gold. <i>Journal of Electroanalytical Chemistry</i> , 2008, 624, 315-322.	3.8	38
14	Theoretical Investigation of Water Exchange on the Nanometer-Sized Polyoxocation $AlO_4(OH)_{12}(H_2O)_{12}^{7+}$ (Keggin- $Al_{13}$ ) in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2008, 130, 14402-14403.	13.7	36
15	Aluminum Tolerance of Two Wheat Cultivars (BrevorandAtlas66) in Relation to Their Rhizosphere pH and Organic Acids Exuded from Roots. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 10033-10039.	5.2	35
16	Determination of the speciation of aluminum(III) in natural waters by adsorption stripping voltammetry and complexation with Al III -solochrome violet RS. <i>Analytica Chimica Acta</i> , 2001, 449, 35-44.	5.4	34
17	Speciation analysis of aluminium(iii) in natural waters and biological fluids by complexing with various catechols followed by differential pulse voltammetry detection. <i>Analyst</i> , The, 2002, 127, 1657-1665.	3.5	32
18	Supermolecule density functional calculations on the water exchange of aquated Al(iii) species in aqueous solution. <i>Chemical Communications</i> , 2008, , 3930.	4.1	32

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19	Investigations on cyclic reciprocal derivative chronopotentiometry. Part 1. Theory for a reversible reaction. <i>Journal of Electroanalytical Chemistry</i> , 1996, 405, 51-58.	3.8	29
20	Neurotransmitter dopamine applied in electrochemical determination of aluminum in drinking waters and biological samples. <i>Journal of Inorganic Biochemistry</i> , 2001, 87, 105-113.	3.5	28
21	A study on the interaction of proteins with some heteropoly compounds and their analytical application by resonance Rayleigh scattering method. <i>Talanta</i> , 2004, 63, 279-286.	5.5	26
22	Studies on the effect of electrode pretreatment on the coverage of self-assembled monolayers of dodecanethiol on gold by electrochemical reductive desorption determination. <i>Analyst, The</i> , 2011, 136, 5058.	3.5	24
23	Resonance Rayleigh scattering study of the reaction of nucleic acids with thionine and its analytical application. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004, 60, 455-462.	3.9	23
24	Differential pulse voltammetric indirect determination of aluminium in drinking waters, blood, urine, hair, and medication samples using l-dopa under alkaline conditions. <i>Analyst, The</i> , 2000, 125, 1299-1302.	3.5	22
25	Room-temperature ionic liquid as a new solvent to prepare high-quality dodecanethiol self-assembled monolayers on polycrystalline gold. <i>Electrochemistry Communications</i> , 2008, 10, 587-591.	4.7	21
26	Assessment of the Accuracy of Theoretical Methods for Calculating <sup>27</sup> Al Nuclear Magnetic Resonance Shielding Tensors of Aquated Aluminum Species. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5138-5143.	2.5	21
27	Linear scan voltammetric indirect determination of Al(III) by the catalytic cathodic response of norepinephrine at the hanging mercury drop electrode. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 1756-1761.	3.5	19
28	Some thoughts on the existence of ion and water channels in highly dense and well-ordered CH <sub>3</sub> -terminated alkanethiol self-assembled monolayers on gold. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1074-1082.	10.1	19
29	Theoretical investigation on the dimerization of the deprotonated aquo ion of Al( $\text{H}_2\text{O}_6$ ) <sup>3+</sup> in water. <i>Dalton Transactions</i> , 2009, , 521-529.	3.3	19
30	Exploration of the specific structural characteristics of thiol-modified single-stranded DNA self-assembled monolayers on gold by a simple model. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4564-4570.	10.1	19
31	Investigation of the factors influencing aluminium speciation in natural water equilibria with the mineral phase gibbsite. <i>Analyst, The</i> , 1995, 120, 2033.	3.5	18
32	Density functional theory study and kinetic analysis of the formation mechanism of Al <sub>3</sub> O <sub>8</sub> (OH) <sub>5</sub> (H <sub>2</sub> O) <sub>26</sub> 18+ (Al <sub>3</sub> O) in aqueous solution. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1220-1229.	3.9	18
33	Theoretical investigation of dehydration of aquated Al(OH) <sub>2</sub> <sup>+</sup> species in aqueous solution. <i>Dalton Transactions</i> , 2009, , 1554.	3.3	17
34	Theoretical exploration of the water exchange mechanism of the polyoxocation GaO <sub>4</sub> Al <sub>12</sub> (OH) <sub>24</sub> (H <sub>2</sub> O) <sub>127</sub> <sup>+</sup> in aqueous solution. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1588-1596.	3.9	17
35	Potential control characteristics of short-chain thiols of thioctic acid and mercaptohexanol self-assembled on gold. <i>Electrochimica Acta</i> , 2010, 55, 6907-6916.	5.2	17
36	Aluminum ions accelerated the oxidative stress of copper-mediated melanin formation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 3075-3083.	3.9	16

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37	Study on the interaction of copper <sup>2+</sup> zinc superoxide dismutase with aluminum ions by electrochemical and fluorescent method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 896-900.	3.9	16
38	Density Functional Investigation of the Water Exchange Reaction on the Gibbsite Surface. <i>Environmental Science &amp; Technology</i> , 2009, 43, 9281-9286.	10.0	16
39	DFT Studies on the Water-Assisted Synergistic Proton Dissociation Mechanism for the Spontaneous Hydrolysis Reaction of Al <sup>3+</sup> in Aqueous Solution. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 269-277.	2.7	16
40	Rapid formation of high-quality self-assembled monolayers of dodecanethiol on polycrystalline gold under ultrasonic irradiation. <i>Electrochimica Acta</i> , 2008, 53, 3479-3483.	5.2	15
41	Density Functional Theory Study on Aqueous Aluminum <sup>3+</sup> Fluoride Complexes: Exploration of the Intrinsic Relationship between Water-Exchange Rate Constants and Structural Parameters for Monomer Aluminum Complexes. <i>Environmental Science &amp; Technology</i> , 2011, 45, 288-293.	10.0	15
42	Effect of monovalent cations (Li <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> , Cs <sup>+</sup> ) on self-assembly of thiol-modified double-stranded and single-stranded DNA on gold electrode. <i>Analyst, The</i> , 2012, 137, 1680.	3.5	15
43	Application of L-Dopa as an Electroactive Ligand for Indirect Determination of Aluminum in Biological Samples by Differential Pulse Voltammetry. <i>Electroanalysis</i> , 2001, 13, 1054-1058.	2.9	14
44	Density functional theory study on the bridge structure in dimeric aluminum (III) water complexes. <i>Journal of Chemical Physics</i> , 2004, 121, 4650-4656.	3.0	14
45	Studies on the effects of Al(III) on the lactate dehydrogenase activity by differential pulse voltammetry. <i>Talanta</i> , 2007, 73, 529-533.	5.5	14
46	<sup>27</sup> Al NMR Chemical Shifts and Relative Stabilities of Aqueous Monomeric Al <sup>3+</sup> Hydrolytic Species with Different Coordination Structures. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1353-1361.	2.7	14
47	Speciation of aluminium(III) in natural waters using differential pulse voltammetry with a Pyrocatechol Violet-modified electrode. <i>Analyst, The</i> , 2001, 126, 1404-1408.	3.5	13
48	ELECTROCHEMICAL AND SPECTROMETRIC STUDIES ON THE PRINCIPLE OF INDIRECT DETERMINATION OF ALUMINUM USING L-DOPA AS AN ELECTROACTIVE COMPLEXING LIGAND. <i>Analytical Letters</i> , 2002, 35, 135-152.	1.8	13
49	Multi-NMR and fluorescence spectra study the effects of aluminum(III) on coenzyme NADH in aqueous solutions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 2561-2569.	3.9	13
50	Indirect Voltammetric Determination of Aluminum in Environmental and Biological Samples in the Presence of the Aluminum Chelating Drugs. <i>Electroanalysis</i> , 2004, 16, 644-649.	2.9	13
51	LC Determination of Trace Short-Chain Organic Acids in Wheat Root Exudates Under Aluminum Stress. <i>Chromatographia</i> , 2007, 66, 867-872.	1.3	13
52	Application of Dopamine as an Electroactive Ligand for the Determination of Aluminum in Biological Fluids. <i>Analytical Sciences</i> , 2002, 18, 293-299.	1.6	12
53	DFT study on the interaction between monomeric aluminium and chloride ion in aqueous solution. <i>Dalton Transactions</i> , 2011, 40, 5052.	3.3	12
54	Density Functional Theory Studies on the Structures and Water-Exchange Reactions of Aqueous Al(III) <sup>+</sup> Oxalate Complexes. <i>Environmental Science &amp; Technology</i> , 2011, 45, 10082-10090.	10.0	12

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55	Computer simulation of the distribution of aluminum speciation in soil solutions in equilibrium with the mineral phase imogolite. <i>Journal of Inorganic Biochemistry</i> , 2001, 87, 97-104.	3.5	11
56	Potentiometric and multinuclear NMR studies on the interaction of aluminum with ascorbic acid in acidic aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 2655-2665.	3.9	11
57	Electrochemical Studies of the Inhibition and Activation Effects of Al (III) on the Activity of Bovine Liver Glutamate Dehydrogenase. <i>Sensors</i> , 2005, 5, 235-244.	3.8	11
58	Rapid formation of well-ordered self-assembled monolayers of dodecanethiol on polycrystalline gold by microwave irradiation. <i>Electrochemistry Communications</i> , 2008, 10, 582-586.	4.7	11
59	Density functional study of the water exchange reaction of the polyoxocation $\text{GeO}_4\text{Al}_{12}(\text{OH})_{24}(\text{H}_2\text{O})_{128}^{+}$ ( $\text{K-GeAl}_{12}$ ) in aqueous solution. <i>Dalton Transactions</i> , 2009, , 8013.	3.3	11
60	A sensitive electrochemical approach for monitoring the effects of nano- $\text{Al}_2\text{O}_3$ on LDH activity by differential pulse voltammetry. <i>Analyst</i> , The, 2010, 135, 116-120.	3.5	11
61	DFT study on the mechanism for the substitution of $\text{F}^{\text{IV}}$ into Al(III) complexes in aqueous solution. <i>Dalton Transactions</i> , 2011, 40, 567-572.	3.3	11
62	Derivative adsorption chronopotentiometric determination of aluminum in natural and drinking waters using the Al(III)-1,2-dihydroxyanthraquinone-3-sulfonic acid system. <i>Electroanalysis</i> , 1997, 9, 1369-1371.	2.9	10
63	Direct Determination of Labile Monomeric Aluminum in Natural Waters By A.C. Oscillopolarography in the Presence of Rubanic Acid. <i>Analytical Letters</i> , 1999, 32, 1435-1446.	1.8	10
64	Speciation of aluminum in the stream waters from the Susquehanna River watershed, Chesapeake Bay. <i>Environmental Geology</i> , 2001, 40, 300-304.	1.2	10
65	Effect of aluminum (III) on the conversion of dopachrome in the melanin synthesis pathway. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 1689-1696.	3.9	10
66	Fractionation of aluminum in natural waters by fluorometry based on the competitive complexation. <i>Analytica Chimica Acta</i> , 2004, 511, 25-31.	5.4	10
67	Electrochemical Studies on the Effects of Nanometer-Sized Tridecameric Aluminum Polycation on Lactate Dehydrogenase Activity at the Molecular Level. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18034-18038.	3.1	10
68	Theoretical investigation of the thermodynamic structures and kinetic water-exchange reactions of aqueous Al(III)-salicylate complexes. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 41-53.	3.9	10
69	Fourier spectrum of ac cyclic oscillochronopotentiometry responses. <i>Journal of Electroanalytical Chemistry</i> , 1995, 390, 1-9.	3.8	8
70	Indirect Differential Pulse Voltammetric Determination of Aluminum Biological Samples in the Presence of 3, 4-Dihydroxyphenylalanine. <i>Analytical Letters</i> , 2000, 33, 209-219.	1.8	8
71	Aluminum Facilitation of the Iron-Mediated Oxidation of DOPA to Melanin. <i>Analytical Sciences</i> , 2004, 20, 629-634.	1.6	8
72	A novel and sensitive method for recognition and indirect determination of Al(III) in biological fluid based on the quenching of resonance Rayleigh scattering intensities of $\text{Al(III)-EV-DNA}$ -complexing system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 69, 142-147.	3.9	8

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73	Electrochemical studies on the permeable characteristics of thiol-modified double-stranded DNA self-assembled monolayers on gold. <i>Analyst, The</i> , 2011, 136, 2090.	3.5	8
74	Studies on the effect of solvents on self-assembly of thioctic acid and Mercaptohexanol on gold. <i>Thin Solid Films</i> , 2011, 519, 4225-4233.	1.8	8
75	A.C. Oscillopolarographic Determination of Aluminum in Natural and Drinking Waters Using the Adsorption of the Al(III)-1,2-Dihydroxyanthraquinone-3-sulfonic Acid Complex. <i>Collection of Czechoslovak Chemical Communications</i> , 1996, 61, 1745-1753.	1.0	8
76	Study of reversible electrode processes with unsymmetrical cyclic reciprocal derivative chronopotentiometry. <i>Electrochimica Acta</i> , 2006, 51, 5548-5555.	5.2	7
77	Insight into the structural characteristics of core-links and flat-aluminum tridecamers: A density functional theory study. <i>Dalton Transactions</i> , 2012, 41, 1027-1032.	3.3	7
78	Estimation of Aluminum Speciation in Surface Waters of Low Ionic Strength by a Simple Computer Model. <i>International Journal of Environmental Analytical Chemistry</i> , 1997, 68, 479-495.	3.3	6
79	Influence of an external magnetic field on the formation of self-assembled monolayers of dodecanethiol on polycrystalline gold electrode. <i>Thin Solid Films</i> , 2009, 517, 3661-3666.	1.8	6
80	Density functional theory studies on the solvent effects in $\text{Al}(\text{H}_2\text{O})_6^{3+}$ water-exchange reactions: the number and arrangement of outer-sphere water molecules. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7342-7350.	2.8	6
81	Determination of Aluminum in Drinking Waters by A.C. Oscillopolarography in a Lithium Chloride System. <i>Analytical Letters</i> , 1998, 31, 669-677.	1.8	5
82	Investigation on Cyclic Reciprocal Derivative Chronopotentiometry. Part II. Theoretical Equation for an Irreversible Reaction. <i>Collection of Czechoslovak Chemical Communications</i> , 2000, 65, 971-978.	1.0	5
83	Indirect A.C. Oscillopolarographic Determination of Total Monomeric and Acid-Reactive Aluminum in Natural Waters by Using Pyrocatechol Violet. <i>Analytical Letters</i> , 2000, 33, 677-689.	1.8	5
84	Theoretical investigation on cyclic reciprocal derivative chronopotentiometry. <i>Electrochimica Acta</i> , 2007, 52, 8020-8030.	5.2	5
85	Theoretical Studies of the Formation Mechanisms, Thermodynamic Stabilities, and Water-Exchange Reactivities of Aluminum-Salicylate Complexes in Aqueous Solution. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 422-431.	2.7	5
86	Chronopotentiometric Determination of Aluminum by Solochrome Violet RS. <i>Analytical Letters</i> , 1998, 31, 1937-1946.	1.8	4
87	INVESTIGATION ON CYCLIC RECIPROCAL DERIVATIVE CHRONOPOTENTIOMETRY. II. A SIMPLE ELECTRONIC SIMULATOR. <i>Instrumentation Science and Technology</i> , 2000, 28, 303-310.	1.8	4
88	Electrochemical behavior of lactate dehydrogenase immobilized on silica sol-gel/nanometre-sized tridecameric aluminium polycation-modified gold electrode and its application. <i>Analyst, The</i> , 2009, 134, 1392.	3.5	4
89	Multi-walled carbon nanotubes decrease lactate dehydrogenase activity in enzymatic reaction. <i>Bioelectrochemistry</i> , 2011, 82, 74-78.	4.6	4
90	Density functional theory studies on the external $\text{OH}^-$ -induced barrierless proton dissociation mechanism for the forced hydrolysis reaction of $\text{Al}^{3+}(\text{aq})$ . <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25682.	2.0	4

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91	Speciation of aluminum equilibria with kaolinite in acidic natural water. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2000, 35, 1849-1857.	1.7	3
92	The Electrochemical Behavior of $\alpha$ -Ketoglutarate at the Hanging Mercury Drop Electrode in Acidic Aqueous Solution and Its Practical Application in Environmental and Biological Samples. <i>Electroanalysis</i> , 2004, 16, 1051-1058.	2.9	3
93	Theoretical study of irreversible electrode reactions with Henry adsorption using symmetrical cyclic reciprocal derivative chronopotentiometry. <i>Electrochimica Acta</i> , 2009, 54, 5326-5335.	5.2	3
94	Cyclic reciprocal derivative chronopotentiometric behavior of electrode process in the presence of adsorptive reactants: A theoretical study of the electrolysis sequence of adsorptive and diffusing electroactive reactants. <i>Electrochimica Acta</i> , 2010, 55, 9051-9059.	5.2	3
95	INVESTIGATION ON CYCLIC RECIPROCAL DERIVATIVE CHRONOPOTENTIOMETRY. IV. CYCLIC CONTROLLED LOGIC CIRCUIT AND ANOTHER SIMPLE RECIPROCAL SIMULATOR. <i>Instrumentation Science and Technology</i> , 2001, 29, 17-24.	1.8	2
96	FRACTIONATION OF ALUMINUM IN NATURAL WATERS BY CATION-EXCHANGE RESIN COUPLED WITH CHLOROFORM EXTRACTION/8-HYDROXYLQUINOLINE FLUORIMETRIC DETERMINATION. <i>Instrumentation Science and Technology</i> , 2001, 29, 153-160.	1.8	2
97	Numerical simulation study on cyclic reciprocal derivative chronopotentiometry of reversible electrode reaction coupled with Langmuir adsorption. <i>Electrochimica Acta</i> , 2013, 93, 222-229.	5.2	2
98	Density Functional Theory Studies on the Real and Apparent Water-Exchange Reaction Kinetics of $Al^{3+}$ in Aqueous Solution. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2315-2322.	2.7	2
99	Insight into the structures and reactivities of aqueous Al(III)-carboxylate complexes from cluster-based ab initio computational studies – Implications for the ligand-promoted mineral dissolution mechanism. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 451-466.	3.9	2
100	Fast Evaluation of Differential Capacity and Surface Charge in Electrical Double Layers with A.C. Oscillopolarography. <i>Collection of Czechoslovak Chemical Communications</i> , 2000, 65, 371-379.	1.0	1
101	The solvation effect on the rattling behaviour of the hydrated excess proton in water. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22385-22389.	2.8	1
102	ADVANCES IN A. C. OSCILLOPOLAROGRAPHY. <i>Instrumentation Science and Technology</i> , 2001, 29, 295-307.	1.8	0
103	Extraction with Toluene and HPLC Determination of Aluminum in the Form of an 8-Hydroxyquinoline Derivative. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2003, 26, 273-283.	1.0	0
104	Selective Penetration of Metal Atoms – New Evidence and Application for the Simple Ideal Penetration Model of the Long-Chain Close-Packed Alkanethiol Self-Assembled Monolayers on Au(111). <i>Physics Procedia</i> , 2012, 32, 198-205.	1.2	0
105	Deriving TC50 Values of Nanoparticles from Electrochemical Monitoring of Lactate Dehydrogenase Activity Indirectly. <i>Methods in Molecular Biology</i> , 2012, 926, 113-130.	0.9	0