

Zhi-Ning Xia

List of Publications by Year in descending order

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110
papers

1,918
citations

236925

25
h-index

361022

35
g-index

111
all docs

111
docs citations

111
times ranked

2329
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of carbon dots using the flowers of <i>Osmanthus fragrans</i> (Thunb.) Lour. as precursors: application in Fe ³⁺ and ascorbic acid determination and cell imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2715-2727.	3.7	84
2	Solid-phase microextraction technology for in vitro and in vivo metabolite analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 57-65.	11.4	79
3	As-prepared MoS ₂ quantum dot as a facile fluorescent probe for long-term tracing of live cells. <i>Nanotechnology</i> , 2016, 27, 275101.	2.6	60
4	Recent applications of hydrophilic interaction liquid chromatography in pharmaceutical analysis. <i>Journal of Separation Science</i> , 2017, 40, 49-80.	2.5	53
5	Geniposide attenuates insulin-deficiency-induced acceleration of β -amyloidosis in an APP/PS1 transgenic model of Alzheimer's disease. <i>Neurochemistry International</i> , 2015, 89, 7-16.	3.8	44
6	A facile and versatile approach for controlling electroosmotic flow in capillary electrophoresis via mussel inspired polydopamine/polyethyleneimine co-deposition. <i>Journal of Chromatography A</i> , 2015, 1416, 94-102.	3.7	44
7	Mixed-mode liquid chromatography with a stationary phase co-functionalized with ionic liquid embedded C18 and an aryl sulfonate group. <i>Journal of Chromatography A</i> , 2018, 1564, 137-144.	3.7	44
8	Preparation and Characterization of Chiral Transition-Metal Dichalcogenide Quantum Dots and Their Enantioselective Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30680-30688.	8.0	42
9	Magnetic molecularly imprinted polymer for the selective extraction of hesperetin from the dried pericarp of <i>Citrus reticulata</i> Blanco. <i>Talanta</i> , 2018, 184, 307-315.	5.5	41
10	Preparation and evaluation of magnetic molecularly imprinted polymers for the specific enrichment of phloridzin. <i>Talanta</i> , 2018, 178, 299-307.	5.5	41
11	Highly Crystalline Covalent Organic Frameworks Act as a Dual-Functional Fluorescent-Sensing Platform for Myricetin and Water, and Adsorbents for Myricetin. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33449-33463.	8.0	39
12	In Vivo Selective Capture and Rapid Identification of Luteolin and Its Metabolites in Rat Livers by Molecularly Imprinted Solid-Phase Microextraction. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 1158-1166.	5.2	38
13	Preparation and evaluation of a reversed-phase/hydrophilic interaction/ion-exchange mixed-mode chromatographic stationary phase functionalized with dopamine-based dendrimers. <i>Journal of Chromatography A</i> , 2018, 1571, 165-175.	3.7	36
14	Natural Products for Antithrombosis. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 1-17.	1.2	35
15	<i>Escherichia coli</i> adhesive coating as a chiral stationary phase for open tubular capillary electrochromatography enantioseparation. <i>Analytica Chimica Acta</i> , 2017, 969, 63-71.	5.4	34
16	An ultrafiltration and high performance liquid chromatography coupled with diode array detector and mass spectrometry approach for screening and characterizing thrombin inhibitors from <i>Rhizoma Chuanxiong</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1061-1062, 421-429.	2.3	33
17	Simultaneous screening and analysis of antiplatelet aggregation active alkaloids from <i>Rhizoma Corydalis</i> . <i>Pharmaceutical Biology</i> , 2016, 54, 3113-3120.	2.9	32
18	Sustained raloxifene release from hyaluronan-alendronate-functionalized titanium nanotube arrays capable of enhancing osseointegration in osteoporotic rabbits. <i>Materials Science and Engineering C</i> , 2018, 82, 345-353.	7.3	32

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19	Preparation of restricted access molecularly imprinted polymers based fiber for selective solid-phase microextraction of hesperetin and its metabolites in vivo. <i>Talanta</i> , 2019, 202, 392-401.	5.5	31
20	Ionic liquid functionalized β -cyclodextrin and C18 mixed-mode stationary phase with achiral and chiral separation functions. <i>Journal of Chromatography A</i> , 2020, 1634, 461674.	3.7	31
21	High-Crystallinity Covalent Organic Framework Synthesized in Deep Eutectic Solvent: Potentially Effective Adsorbents Alternative to Macroporous Resin for Flavonoids. <i>Chemistry of Materials</i> , 2021, 33, 8036-8051.	6.7	30
22	Evaluation of thrombin inhibitory activity of catechins by online capillary electrophoresis-based immobilized enzyme microreactor and molecular docking. <i>Talanta</i> , 2018, 185, 16-22.	5.5	28
23	A SPE Method with Two MIPs in Two Steps for Improving the Selectivity of MIPs. <i>Analytical Chemistry</i> , 2019, 91, 8436-8442.	6.5	28
24	Weak hydrogen bond topology in 1,1-difluoroethane dimer: A rotational study. <i>Journal of Chemical Physics</i> , 2017, 147, 094301.	3.0	27
25	Preparation of a poly(ethyleneimine) embedded phenyl stationary phase for mixed-mode liquid chromatography. <i>Analytica Chimica Acta</i> , 2018, 1042, 165-173.	5.4	27
26	Extraction and determination of bioactive flavonoids from <i>Abelmoschus manihot</i> (Linn.) Medicus flowers using deep eutectic solvents coupled with high-performance liquid chromatography. <i>Journal of Separation Science</i> , 2019, 42, 2044-2052.	2.5	25
27	Amino-terminated supramolecular cucurbit [6] uril pseudorotaxane complexes immobilized on magnetite@silica nanoparticles: A highly efficient sorbent for salvianolic acids. <i>Talanta</i> , 2019, 195, 354-365.	5.5	25
28	Layer-by-layer self-assembly of polydopamine/gold nanoparticle/thiol coating as the stationary phase for open tubular capillary electrochromatography. <i>Analytical Methods</i> , 2015, 7, 8227-8234.	2.7	24
29	Determination of eight isoflavones in <i>Radix Puerariae</i> by capillary zone electrophoresis with an ionic liquid as an additive. <i>Analytical Methods</i> , 2015, 7, 1098-1103.	2.7	24
30	Prediction of Placental Barrier Permeability: A Model Based on Partial Least Squares Variable Selection Procedure. <i>Molecules</i> , 2015, 20, 8270-8286.	3.8	23
31	Specific adsorption of tetracycline from milk by using biocompatible magnetic molecular imprinting material and evaluation by ECD. <i>Food Chemistry</i> , 2020, 326, 126969.	8.2	23
32	Deep eutectic solvent assisted synthesis of carbon dots using <i>Sophora flavescens</i> Aiton modified with polyethyleneimine: Application in myricetin sensing and cell imaging. <i>Food Chemistry</i> , 2021, 345, 128817.	8.2	23
33	Applications of Biochromatography in the Screening of Bioactive Natural Products. <i>Journal of Chromatographic Science</i> , 2013, 51, 780-790.	1.4	22
34	Preparation and evaluation of a poly(N-isopropylacrylamide) derived graphene quantum dots based hydrophilic interaction and reversed-phase mixed-mode stationary phase for complex sample analysis. <i>Talanta</i> , 2021, 224, 121869.	5.5	22
35	In vitro evaluation of dual agonists for PPAR β from the flower of <i>Edgeworthia gardneri</i> (wall.) Meisn. <i>Journal of Ethnopharmacology</i> , 2015, 162, 14-19.	4.1	21
36	The flower of <i>Edgeworthia gardneri</i> (wall.) Meisn. suppresses adipogenesis through modulation of the AMPK pathway in 3T3-L1 adipocytes. <i>Journal of Ethnopharmacology</i> , 2016, 191, 379-386.	4.1	21

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37	Debittering of lemon juice using surface molecularly imprinted polymers and the utilization of limonin. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1104, 205-211.	2.3	21
38	Quality evaluation of natural <i>Cordyceps sinensis</i> from different collecting places in China by the contents of nucleosides and heavy metals. <i>Analytical Methods</i> , 2013, 5, 5450.	2.7	20
39	Nanoscale Hierarchically Micro- and Mesoporous Metal-Organic Frameworks for High-Resolution and High-Efficiency Capillary Electrochromatographic Separation. <i>Analytical Chemistry</i> , 2020, 92, 15655-15662.	6.5	20
40	Rapid synthesis of three-dimensional sulfur-doped porous graphene via solid-state microwave irradiation for protein removal in plasma sample pretreatment. <i>Talanta</i> , 2018, 185, 528-536.	5.5	18
41	Determination of three curcuminoids in <i>Curcuma longa</i> by microemulsion electrokinetic chromatography with protective effects on the analytes. <i>Analytical Methods</i> , 2014, 6, 2566-2571.	2.7	17
42	Molecularly imprinted polymer for the selective extraction of luteolin from <i>Chrysanthemum morifolium</i> Ramat. <i>Journal of Separation Science</i> , 2016, 39, 3002-3010.	2.5	17
43	Cell Signaling Mechanisms by which Geniposide Regulates Insulin-Degrading Enzyme Expression in Primary Cortical Neurons. <i>CNS and Neurological Disorders - Drug Targets</i> , 2015, 14, 370-377.	1.4	17
44	One-pot method for the synthesis of β -cyclodextrin and covalent organic framework functionalized chiral stationary phase with mixed-mode retention mechanism. <i>Journal of Chromatography A</i> , 2022, 1662, 462731.	3.7	17
45	Improvement of microemulsion electrokinetic chromatography for measuring octanol-water partition coefficients. <i>Electrophoresis</i> , 2008, 29, 835-842.	2.4	16
46	Interactions of Gold Nanoparticles and Lysozyme by Fluorescence Quenching Method. <i>Analytical Letters</i> , 2012, 45, 2236-2245.	1.8	16
47	Investigation of Interactions between Thrombin and Ten Phenolic Compounds by Affinity Capillary Electrophoresis and Molecular Docking. <i>Journal of Analytical Methods in Chemistry</i> , 2018, 2018, 1-8.	1.6	16
48	N,Cl-Codoped Carbon Dots from <i>Impatiens balsamina</i> L. Stems and a Deep Eutectic Solvent and Their Applications for Gram-Positive Bacteria Identification, Antibacterial Activity, Cell Imaging, and ClO_2^- Sensing. <i>ACS Omega</i> , 2021, 6, 29022-29036.	3.5	16
49	Selective extraction and enrichment of glycoproteins based on boronate affinity SPME and determination by CIEF-WCID. <i>Analytica Chimica Acta</i> , 2015, 886, 83-90.	5.4	15
50	The adsorption behavior and mechanism of perfluorochemicals on oxidized fluorinated graphene sheets supported on silica. <i>Analytical Methods</i> , 2017, 9, 6645-6652.	2.7	15
51	Preparation of an aminophenylboronic acid and N-isopropyl acrylamide copolymer functionalized stationary phase for mixed-mode chromatography. <i>Journal of Chromatography A</i> , 2020, 1627, 461423.	3.7	15
52	Selective separation and inexpensive purification of paclitaxel based on molecularly imprinted polymers modified with ternary deep eutectic solvents. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 192, 113661.	2.8	15
53	Covalently N-Doped MXene Quantum Dots for Highly Stable Fluorescent Cu^{2+} Ion Sensor. <i>ACS Applied Nano Materials</i> , 2022, 5, 11715-11722.	5.0	15
54	Extraction of activated epimedium glycosides in vivo and in vitro by using bifunctional-monomer chitosan magnetic molecularly imprinted polymers and identification by UPLC-Q-TOF-MS. <i>Talanta</i> , 2020, 219, 121350.	5.5	14

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55	Simultaneous Determination of Ten Nucleosides and Related Compounds by MEEKC with [BMIM]PF ₆ as Oil Phase. <i>Chromatographia</i> , 2013, 76, 1003-1011.	1.3	13
56	Thermoresponsive chiral stationary phase functionalized with the copolymer of β -cyclodextrin and N-isopropylacrylamide for high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1618, 460904.	3.7	13
57	Photocatalytic and photochemical processes of AgCl/TiO ₂ studied with a fully integrated X-ray photoelectron spectrometer. <i>Rare Metals</i> , 2021, 40, 799-807.	7.1	13
58	Magnetic porous cellulose surface-imprinted polymers synthesized with assistance of deep eutectic solvent for specific recognition and purification of bisphenols. <i>International Journal of Biological Macromolecules</i> , 2022, 216, 374-387.	7.5	13
59	Evaluation of affinity interaction between small molecules and platelets by open tubular affinity capillary electrochromatography. <i>Electrophoresis</i> , 2016, 37, 736-743.	2.4	12
60	Characterization of phenolic acids binding to thrombin using frontal affinity chromatography and molecular docking. <i>Analytical Methods</i> , 2017, 9, 5174-5180.	2.7	12
61	Preparation of an aspartame and N-isopropyl acrylamide copolymer functionalized stationary phase with multi-mode and chiral separation abilities. <i>Journal of Chromatography A</i> , 2020, 1634, 461675.	3.7	12
62	Simultaneous extraction of several targets by using non-toxic dual template molecularly imprinted polymers in vivo and in vitro. <i>Talanta</i> , 2020, 219, 121283.	5.5	12
63	Adsorbed hollow fiber-based biological fingerprinting for the discovery of platelet aggregation inhibitors from Danshen-Honghua decoction. <i>Journal of Separation Science</i> , 2018, 41, 2651-2660.	2.5	11
64	Microwave-prepared mesoporous graphene as adsorbent and matrix of surface-assisted laser desorption/ionization mass spectrometry for the enrichment and rapid detection of polyphenols in biological samples. <i>Talanta</i> , 2021, 222, 121365.	5.5	11
65	In vitro screening and evaluation of 37 traditional chinese medicines for their potential to activate peroxisome proliferator-activated receptors- β . <i>Pharmacognosy Magazine</i> , 2016, 12, 120.	0.6	11
66	Comparison study on nucleosides and nucleotides in edible mushroom species by capillary zone electrophoresis. <i>Analytical Methods</i> , 2012, 4, 546.	2.7	10
67	Weak Hydrogen Bond Network: A Rotational Study of 1,1,1,2-Tetrafluoroethane Dimer. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7876-7881.	2.5	10
68	Differential proteomic analysis of platelets suggested target-related proteins in rabbit platelets treated with <i>Rhizoma Corydalis</i> . <i>Pharmaceutical Biology</i> , 2017, 55, 76-87.	2.9	9
69	Microwave spectroscopy of 2-(trifluoromethyl)pyridine-water complex: Molecular structure and hydrogen bond. <i>Journal of Chemical Physics</i> , 2018, 148, 044306.	3.0	9
70	Preparation and evaluation of a molybdenum disulfide quantum dots embedded C18 mixed-mode chromatographic stationary phase. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1365-1374.	3.7	9
71	Metal-Organic Frameworks-Based Immobilized Enzyme Microreactors Integrated with Capillary Electrochromatography for High-Efficiency Enzyme Assay. <i>Analytical Chemistry</i> , 2022, 94, 6540-6547.	6.5	9
72	Analysis of Eight Isoflavones in Radix Puerariae by MEEKC: Comparison on Three Different Oil Phases. <i>Journal of Chromatographic Science</i> , 2016, 54, 1678-1686.	1.4	8

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73	Shape and non-bonding interactions in the formic acid-difluoromethane complex by rotational spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 206, 185-189.	3.9	8
74	High-Efficiency and Versatile Approach To Fabricate Diverse Metal-Organic Framework Coatings on a Support Surface as Stationary Phases for Electrochromatographic Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41075-41083.	8.0	8
75	An Ab Initio Study of Substituent Effects on the Electrocyclization of Silyloxyazadienes. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 3533-3538.	2.4	7
76	Separation Study of Eight Isoflavones by MEKC with Different Surfactants. <i>Chromatographia</i> , 2015, 78, 1385-1393.	1.3	7
77	Evaluation of interactions between RAW264.7 macrophages and small molecules by capillary electrophoresis. <i>Electrophoresis</i> , 2017, 38, 938-941.	2.4	7
78	Development of phospholipid complex loaded self-microemulsifying drug delivery system to improve the oral bioavailability of resveratrol. <i>Nanomedicine</i> , 2021, 16, 721-739.	3.3	7
79	Molecular Distance-Edge Vector ($\frac{1}{4}$) and Chromatographic Retention Index of Alkanes. <i>Journal of the Chinese Chemical Society</i> , 2000, 47, 455-460.	1.4	6
80	Determination of Octanol-Water Partition Coefficients by MEEKC Based on Peak-Shift Assay. <i>Chromatographia</i> , 2010, 72, 495-501.	1.3	6
81	Comparing coagulation activity of <i>Selaginella tamariscina</i> before and after stir-frying process and determining the possible active constituents based on compositional variation. <i>Pharmaceutical Biology</i> , 2018, 56, 67-75.	2.9	6
82	pH-dependent surface electrostatic effects in retention on immobilized artificial membrane chromatography: Determination of the intrinsic phospholipid-water sorption coefficients of diverse analytes. <i>Journal of Chromatography A</i> , 2018, 1570, 172-182.	3.7	6
83	Rotational spectrum and structure of 2-chlorothiophene and its complex with argon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 218, 136-141.	3.9	6
84	Analysis of soluble proteins in natural <i>Cordyceps sinensis</i> from different producing areas by sodium dodecyl sulfate-polyacrylamide gel electrophoresis and two-dimensional electrophoresis. <i>Pharmacognosy Research (discontinued)</i> , 2017, 9, 34.	0.6	6
85	Rapid screening and evaluation of antioxidants in alkaloid natural products by capillary electrophoresis with chemiluminescence detection. <i>Analytical Methods</i> , 2016, 8, 6545-6553.	2.7	5
86	Microwave spectrum and non-covalent interactions of the 1, 2, 3, 4-tetrafluorobenzene-water complex. <i>Journal of Chemical Physics</i> , 2018, 149, 164306.	3.0	5
87	Structure and non-covalent interactions of 1,3-difluoropropane and its complex with water explored by rotational spectroscopy and quantum chemical calculations. <i>Journal of Chemical Physics</i> , 2019, 150, 064305.	3.0	5
88	Identification of the adulterated Asini Corii Colla with cytochrome c oxidase subunit I gene-based polymerase chain reaction. <i>Pharmacognosy Research (discontinued)</i> , 2017, 9, 313.	0.6	5
89	Preliminary screening of the potential active ingredients in traditional Chinese medicines using the Ussing chamber model combined with HPLC-PDA-MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2022, 1189, 123090.	2.3	5
90	In vitro anti-platelet aggregation effects of fourteen fruits and vegetables. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2019, 32, 185-195.	0.2	5

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91	Investigation of interaction between the drug and cell membrane by capillary electrophoresis. <i>Science in China Series B: Chemistry</i> , 2009, 52, 2200-2204.	0.8	4
92	Microwave radiation one-pot synthesis of chloropropyl-functionalized mesoporous MCM-41. <i>Journal of Central South University</i> , 2012, 19, 2130-2135.	3.0	4
93	A New $\hat{3}$ -Pyrone from <i>Ampelocissus artemisiifolia</i> . <i>Chemistry of Natural Compounds</i> , 2014, 50, 982.	0.8	4
94	Evaluation of the Interactions Between Platelets and Alkaloids by Frontal Analysis Capillary Electrophoresis Using Polyvinyl Alcohol-Coated Capillary. <i>Chromatographia</i> , 2018, 81, 509-516.	1.3	4
95	Structure, Conformational Equilibria, and Weak Hydrogen Bonding in the $\text{CH}_2\text{F}_2\text{CF}_3\text{CH}_2\text{F}$ Dimer. <i>ChemPhysChem</i> , 2018, 19, 2655-2661.	2.1	4
96	Establishment and application of a new method for the determination of kinetic parameters by plug-plug kinetic capillary electrophoresis (ppKCE). <i>Science in China Series B: Chemistry</i> , 2008, 51, 1087-1092.	0.8	3
97	Microwave-Assisted Carbonyl-Carbonyl Coupling Route for the Preparation of a Useful Intermediate in the Synthesis of Carbapenems. <i>Synthetic Communications</i> , 2009, 39, 2151-2160.	2.1	3
98	Synthesis of 2-(arylamino)nicotinic acids in high-temperature water. <i>Research on Chemical Intermediates</i> , 2012, 38, 1691-1697.	2.7	3
99	Comparative Analysis of Soluble Proteins in Four Medicinal Aloe Species by Two-Dimensional Electrophoresis and MALDI-TOF-MS. <i>Journal of AOAC INTERNATIONAL</i> , 2019, 102, 748-760.	1.5	3
100	Rapid analysis of 14 ultraviolet absorbents in plastic food contact materials by supercritical fluid chromatography on Sub-2-micron particles. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2020, 43, 547-553.	1.0	3
101	Palladium-Catalyzed Heteroaromatic Couplings Mediated by Microwave Irradiation. <i>Synthetic Communications</i> , 2007, 37, 4239-4244.	2.1	2
102	Electrostatic interaction mechanism on the separation of phenols by non-aqueous capillary electrophoresis. <i>Science in China Series B: Chemistry</i> , 2007, 50, 47-53.	0.8	2
103	Design and Synthesis of Some New N-Phenylanthranilic Acids from Highly Sterically Hindered Anilines. <i>Synthetic Communications</i> , 2013, 43, 1270-1279.	2.1	2
104	Chemical Constituents of <i>Pouzolzia zeylanica</i> with PPAR $\hat{3}$ and PPAR $\hat{2}$ Activities. <i>Chemistry of Natural Compounds</i> , 2015, 51, 1157-1159.	0.8	1
105	Determination of Platelet Aggregation by Capillary Electrophoresis. <i>Chromatographia</i> , 2017, 80, 341-345.	1.3	1
106	Van der Waals interaction mechanism between perhalogenated ethylene and rare gas: A rotational study of chlorotrifluoroethylene-argon. <i>Journal of Chemical Physics</i> , 2018, 148, 154302.	3.0	1
107	Electronegativity Scaled as a Average Attracting Energy of Valence-Shell Electrons in a Ground-State Free Atom. <i>Journal of the Chinese Chemical Society</i> , 2001, 48, 701-707.	1.4	0
108	Rotational study on the van der Waals complex 1-chloro-1,1-difluoroethane-argon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 193, 447-450.	3.9	0

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109	Rotational spectrum, internal dynamics, and molecular structure of methylphenylsilane. <i>Journal of Chemical Physics</i> , 2019, 150, 234302.	3.0	0
110	Microorganisms as Bio-SPE Materials for Extraction of Pharmaceutical Drugs: Mechanism of Extraction. <i>Analytical Chemistry</i> , 2021, 93, 7665-7672.	6.5	0