

Wan Aini Wan Ibrahim

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110
papers

3,086
citations

32
h-index

49
g-index

113
ext. papers

3,458
ext. citations

3.8
avg. IF

5.58
L-index

#	Paper	IF	Citations
110	Extracting hydroxyapatite and its precursors from natural resources. <i>Journal of Materials Science</i> , 2014 , 49, 1461-1475	4.3	213
109	Development of magnetic graphene oxide adsorbent for the removal and preconcentration of As(III) and As(V) species from environmental water samples. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 9759-73	5.1	126
108	Molecularly imprinted polymer solid-phase extraction for the analysis of organophosphorus pesticides in fruit samples. <i>Journal of Food Composition and Analysis</i> , 2013 , 32, 155-161	4.1	104
107	Determination of triazine herbicides using membrane-protected carbon nanotubes solid phase membrane tip extraction prior to micro-liquid chromatography. <i>Journal of Chromatography A</i> , 2010 , 1217, 1767-72	4.5	103
106	Dispersive liquid-liquid microextraction method based on solidification of floating organic droplet for the determination of triazine herbicides in water and sugarcane samples. <i>Food Chemistry</i> , 2012 , 133, 557-62	8.5	94
105	Graphene-Based Materials as Solid Phase Extraction Sorbent for Trace Metal Ions, Organic Compounds, and Biological Sample Preparation. <i>Critical Reviews in Analytical Chemistry</i> , 2016 , 46, 267-83 ^{5.2}		87
104	Magnetic solid-phase extraction based on modified ferum oxides for enrichment, preconcentration, and isolation of pesticides and selected pollutants. <i>Critical Reviews in Analytical Chemistry</i> , 2015 , 45, 270-87 ^{5.2}		87
103	New magnetic graphene-based inorganic-organic sol-gel hybrid nanocomposite for simultaneous analysis of polar and non-polar organophosphorus pesticides from water samples using solid-phase extraction. <i>Chemosphere</i> , 2017 , 166, 21-30	8.4	83
102	Comparison of Signal-to-Noise, Blank Determination, and Linear Regression Methods for the Estimation of Detection and Quantification Limits for Volatile Organic Compounds by Gas Chromatography. <i>Journal of AOAC INTERNATIONAL</i> , 2009 , 92, 1833-1838	1.7	78
101	Solid phase microextraction using new sol-gel hybrid polydimethylsiloxane-2-hydroxymethyl-18-crown-6-coated fiber for determination of organophosphorous pesticides. <i>Journal of Chromatography A</i> , 2010 , 1217, 4890-7	4.5	67
100	Novel sol-gel hybrid methyltrimethoxysilane-tetraethoxysilane as solid phase extraction sorbent for organophosphorus pesticides. <i>Journal of Chromatography A</i> , 2012 , 1229, 55-62	4.5	63
99	The removal of organophosphorus pesticides from water using a new amino-substituted calixarene-based magnetic sporopollenin. <i>New Journal of Chemistry</i> , 2016 , 40, 3130-3138	3.6	60
98	Preparation of methacrylamide-functionalized crosslinked chitosan by free radical polymerization for the removal of lead ions. <i>Carbohydrate Polymers</i> , 2016 , 151, 1091-1099	10.3	58
97	Equilibrium, kinetic and mechanism studies of Cu(II) and Cd(II) ions adsorption by modified chitosan beads. <i>International Journal of Biological Macromolecules</i> , 2018 , 116, 255-263	7.9	58
96	Determination of carotene, tocopherols and tocotrienols in residue oil from palm pressed fiber using pressurized liquid extraction-normal phase liquid chromatography. <i>Analytica Chimica Acta</i> , 2005 , 538, 71-76	6.6	58
95	Application of solid-phase extraction for trace elements in environmental and biological samples: a review. <i>Critical Reviews in Analytical Chemistry</i> , 2014 , 44, 233-54	5.2	57
94	Rapid and direct determination of glyphosate, glufosinate, and aminophosphonic acid by online preconcentration CE with contactless conductivity detection. <i>Electrophoresis</i> , 2010 , 31, 575-82	3.6	52

93	Dispersive graphene-based silica coated magnetic nanoparticles as a new adsorbent for preconcentration of chlorinated pesticides from environmental water. <i>RSC Advances</i> , 2015 , 5, 76424-76434	3.7	46
92	High temperature liquid chromatography of triazole fungicides on polybutadiene-coated zirconia stationary phase. <i>Journal of Chromatography A</i> , 2004 , 1059, 95-101	4.5	44
91	On-line preconcentration and chiral separation of propiconazole by cyclodextrin-modified micellar electrokinetic chromatography. <i>Journal of Chromatography A</i> , 2007 , 1170, 107-13	4.5	43
90	Graphene-magnetite as adsorbent for magnetic solid phase extraction of 4-hydroxybenzoic acid and 3,4-dihydroxybenzoic acid in stingless bee honey. <i>Food Chemistry</i> , 2018 , 265, 165-172	8.5	41
89	Dispersive micro-solid phase extraction method using newly prepared poly(methyl methacrylate) grafted agarose combined with ICP-MS for the simultaneous determination of Cd, Ni, Cu and Zn in vegetable and natural water samples. <i>Analytical Methods</i> , 2015 , 7, 3215-3223	3.2	40
88	New chrysin-functionalized silica-core shell magnetic nanoparticles for the magnetic solid phase extraction of copper ions from water samples. <i>Talanta</i> , 2016 , 148, 191-9	6.2	40
87	Multi-walled carbon nanotube-impregnated agarose film microextraction of polycyclic aromatic hydrocarbons in green tea beverage. <i>Talanta</i> , 2013 , 106, 200-5	6.2	39
86	Determination of pesticides in water by cone-shaped membrane protected liquid phase microextraction prior to micro-liquid chromatography. <i>Journal of Chromatography A</i> , 2007 , 1152, 215-9	4.5	39
85	Acrylamide analysis in food by liquid chromatographic and gas chromatographic methods. <i>Critical Reviews in Analytical Chemistry</i> , 2014 , 44, 107-41	5.2	37
84	Preparation and characterization of a new sol-gel hybrid based tetraethoxysilane-polydimethylsiloxane as a stir bar extraction sorbent materials. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 58, 602-611	2.3	36
83	Sol-gel hybrid methyltrimethoxysilane-tetraethoxysilane as a new dispersive solid-phase extraction material for acrylamide determination in food with direct gas chromatography-mass spectrometry analysis. <i>Food Chemistry</i> , 2014 , 158, 302-9	8.5	35
82	Synthesis and characterization of polydimethylsiloxane-cyanopropyltriethoxysilane-derived hybrid coating for stir bar sorptive extraction. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 59, 128-134	2.3	35
81	MCM-41 solid phase membrane tip extraction combined with liquid chromatography for the determination of non-steroidal anti-inflammatory drugs in human urine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013 , 940, 59-65	3.2	34
80	New effective 3-aminopropyltrimethoxysilane functionalized magnetic sporopollenin-based silica coated graphene oxide adsorbent for removal of Pb(II) from aqueous environment. <i>Journal of Environmental Management</i> , 2020 , 253, 109658	7.9	33
79	A novel cyanopropylsilane-functionalized titanium oxide magnetic nanoparticle for the adsorption of nickel and lead ions from industrial wastewater: Equilibrium, kinetic and thermodynamic studies. <i>Microchemical Journal</i> , 2019 , 145, 914-920	4.8	32
78	Continuous microwave flow synthesis of mesoporous hydroxyapatite. <i>Materials Science and Engineering C</i> , 2015 , 56, 356-62	8.3	29
77	Continuous microwave flow synthesis (CMFS) of nano-sized tin oxide: Effect of precursor concentration. <i>Ceramics International</i> , 2016 , 42, 8613-8619	5.1	28
76	Magnetic graphene-based cyanopropyltriethoxysilane as an adsorbent for simultaneous determination of polar and non-polar organophosphorus pesticides in cow's milk. <i>RSC Advances</i> , 2016 , 6, 24853-24864	3.7	28

75	Determination of Triazole Fungicides Using Hollow Fiber Liquid Phase Microextraction Prior to Gas Chromatography-Mass Spectrometry Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3101-3107	3.9	28
74	Dynamic supported liquid membrane tip extraction of glyphosate and aminomethylphosphonic acid followed by capillary electrophoresis with contactless conductivity detection. <i>Journal of Chromatography A</i> , 2010 , 1217, 5832-8	4.5	28
73	Magnetic sporopollenin-cyanopropyltriethoxysilane-dispersive micro-solid phase extraction coupled with high performance liquid chromatography for the determination of selected non-steroidal anti-inflammatory drugs in water samples. <i>Journal of Chromatography A</i> , 2018 , 1532, 50-57	4.5	27
72	Agarose-chitosan-C film micro-solid phase extraction combined with high performance liquid chromatography for the determination of phenanthrene and pyrene in chrysanthemum tea samples. <i>Food Chemistry</i> , 2017 , 222, 28-34	8.5	26
71	Stacking and Sweeping in Cyclodextrin-Modified MEKC for Chiral Separation of Hexaconazole, Penconazole and Myclobutanil. <i>Chromatographia</i> , 2010 , 71, 305-309	2.1	26
70	Chiral separation of econazole using micellar electrokinetic chromatography with hydroxypropyl-gamma-cyclodextrin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 53, 1244-9	3.5	26
69	New efficient chitosan derivative for Cu(II) ions removal: Characterization and adsorption performance. <i>International Journal of Biological Macromolecules</i> , 2020 , 153, 513-522	7.9	25
68	Solvent-impregnated agarose gel liquid phase microextraction of polycyclic aromatic hydrocarbons in water. <i>Journal of Chromatography A</i> , 2013 , 1302, 14-9	4.5	25
67	Dispersive Micro-Solid Phase Extraction Combined with High-Performance Liquid Chromatography for the Determination of Three Penicillins in Milk Samples. <i>Food Analytical Methods</i> , 2015 , 8, 1079-1087	3.4	25
66	Liquid Chromatographic Determination of NSAIDs in Urine After Dispersive Liquid-Liquid Microextraction Based on Solidification of Floating Organic Droplets. <i>Chromatographia</i> , 2015 , 78, 987-994	2.1	24
65	A simple microextraction and preconcentration approach based on a mixed matrix membrane. <i>Analytica Chimica Acta</i> , 2013 , 783, 24-30	6.6	24
64	Equilibrium, kinetic and thermodynamic study of pesticides removal from water using novel glucamine-calix[4]arene functionalized magnetic graphene oxide. <i>Environmental Sciences: Processes and Impacts</i> , 2019 , 21, 714-726	4.3	23
63	Magnetic graphene sol-gel hybrid as clean-up adsorbent for acrylamide analysis in food samples prior to GC-MS. <i>Food Chemistry</i> , 2018 , 239, 208-216	8.5	21
62	Advances in organic-inorganic hybrid sorbents for the extraction of organic and inorganic pollutants in different types of food and environmental samples. <i>Journal of Separation Science</i> , 2018 , 41, 195-208	3.4	21
61	Agarose film liquid phase microextraction combined with gas chromatography-mass spectrometry for the determination of polycyclic aromatic hydrocarbons in water. <i>Journal of Chromatography A</i> , 2012 , 1262, 43-8	4.5	21
60	Alginate graft polyacrylonitrile beads for the removal of lead from aqueous solutions. <i>Polymer Bulletin</i> , 2016 , 73, 519-537	2.4	20
59	Solid-phase membrane tip extraction combined with liquid chromatography for the determination of azole antifungal drugs in human plasma. <i>Analytical Methods</i> , 2014 , 6, 3375-3381	3.2	20
58	Simultaneous preconcentration of polar and non-polar organophosphorus pesticides from water samples by using a new sorbent based on mesoporous silica. <i>Journal of Separation Science</i> , 2016 , 39, 1144-51	3.4	20

57	Continuous microwave flow synthesis and characterization of nanosized tin oxide. <i>Materials Letters</i> , 2015 , 160, 146-149	3.3	19
56	Separation of selected imidazole enantiomers using dual cyclodextrin system in micellar electrokinetic chromatography. <i>Chirality</i> , 2013 , 25, 328-35	2.1	19
55	Cyclodextrin-modified MEKC for enantioseparation of hexaconazole, penconazole, and myclobutanil. <i>Journal of Separation Science</i> , 2009 , 32, 466-71	3.4	19
54	Chiral separation of four stereoisomers of ketoconazole drugs using capillary electrophoresis. <i>Chirality</i> , 2015 , 27, 223-7	2.1	18
53	New crosslinked-chitosan graft poly(N-vinyl-2-pyrrolidone) for the removal of Cu(II) ions from aqueous solutions. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 891-897	7.9	18
52	Rapid Dispersive Micro-Solid Phase Extraction Using Mesoporous Carbon COU-2 in the Analysis of Cloxacillin in Water. <i>Journal of Pharmaceutical Innovation</i> , 2013 , 8, 240-246	1.8	18
51	Enhanced removal of Orange G from aqueous solutions by modified chitosan beads: Performance and mechanism. <i>International Journal of Biological Macromolecules</i> , 2019 , 133, 1260-1267	7.9	17
50	Nano iron porphyrinated poly(amidoamine) dendrimer mobil composition matter-41 for extraction of N-nitrosodiphenylamine nitrosamine from water samples. <i>Microporous and Mesoporous Materials</i> , 2015 , 213, 68-77	5.3	17
49	Portable micro-solid phase extraction for the determination of polycyclic aromatic hydrocarbons in water samples. <i>Analytical Methods</i> , 2014 , 6, 5512-5518	3.2	17
48	Determination of polycyclic aromatic hydrocarbons in fresh milk by hollow fiber liquid-phase microextraction-gas chromatography mass spectrometry. <i>Journal of Chromatographic Science</i> , 2013 , 51, 112-6	1.4	16
47	New magnetic oil palm fiber activated carbon-reinforced polypyrrole solid phase extraction combined with gas chromatography-electron capture detection for determination of organochlorine pesticides in water samples. <i>Journal of Chromatography A</i> , 2020 , 1612, 460638	4.5	16
46	New SolGel Hybrid Material in Solid Phase Extraction Combined with Liquid Chromatography for the Determination of Non-steroidal Anti-inflammatory Drugs in Water Samples. <i>Chromatographia</i> , 2016 , 79, 421-429	2.1	15
45	Solid-phase microextraction based on an agarose-chitosan-multiwalled carbon nanotube composite film combined with HPLC-UV for the determination of nonsteroidal anti-inflammatory drugs in aqueous samples. <i>Journal of Separation Science</i> , 2018 , 41, 2942	3.4	15
44	Magnetic micro-solid-phase extraction based on magnetite-MCM-41 with gas chromatography-mass spectrometry for the determination of antidepressant drugs in biological fluids. <i>Journal of Separation Science</i> , 2017 , 40, 4222-4233	3.4	15
43	Simultaneous enantioseparation of cyproconazole, bromuconazole, and diniconazole enantiomers by CD-modified MEKC. <i>Electrophoresis</i> , 2009 , 30, 1976-82	3.6	15
42	Headspace Single Drop Microextraction for the Analysis of Fire Accelerants in Fire Debris Samples. <i>Analytical Letters</i> , 2010 , 43, 2257-2266	2.2	14
41	Theoretical and Molecular Docking Study of Ketoconazole on Heptakis(2,3,6-tri-O-methyl)- β -cyclodextrin as Chiral Selector. <i>Chirality</i> , 2016 , 28, 209-14	2.1	14
40	Ultrasonic-Assisted Extraction of Curcumin Complexed with Methyl- β -Cyclodextrin. <i>Food Analytical Methods</i> , 2015 , 8, 1373-1381	3.4	13

39	Two-phase electrodriven membrane extraction combined with liquid chromatography for the determination of tricyclic antidepressants in aqueous matrices. <i>Analytical Methods</i> , 2014 , 6, 8802-8809	3.2	13
38	Application of Double-Phase Liquid Phase Microextraction in the Determination of Partition Coefficients and Analysis of Pesticides in Water Samples. <i>Chromatographia</i> , 2010 , 71, 461-467	2.1	13
37	Continuous microwave flow synthesis (CMFS) of nanosized titania: Structural, optical and photocatalytic properties. <i>Materials Letters</i> , 2015 , 158, 95-98	3.3	12
36	Provenance Establishment of Stingless Bee Honey Using Multi-element Analysis in Combination with Chemometrics Techniques. <i>Journal of Forensic Sciences</i> , 2018 , 63, 80-85	1.8	12
35	Removal of lead ions from aqueous solutions using sodium alginate-graft-poly(methyl methacrylate) beads. <i>Desalination and Water Treatment</i> , 2016 , 57, 15353-15361		12
34	Chiral separation of vinpocetine using cyclodextrin-modified micellar electrokinetic chromatography. <i>Chirality</i> , 2012 , 24, 252-4	2.1	12
33	ANALYSIS OF ORGANOPHOSPHORUS PESTICIDES IN VEGETABLE SAMPLES BY HOLLOW FIBER LIQUID PHASE MICROEXTRACTION COUPLED WITH GAS CHROMATOGRAPHY-ELECTRON CAPTURE DETECTION. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2010 , 33, 693-703	1.3	12
32	Ionic liquid-impregnated agarose film two-phase micro-electrodriven membrane extraction (IL-AF-EME) for the analysis of antidepressants in water samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1046, 73-80	3.2	11
31	Equilibrium and kinetic study of novel methyltrimethoxysilane magnetic titanium dioxide nanocomposite for methylene blue adsorption from aqueous media. <i>Applied Organometallic Chemistry</i> , 2018 , 32, e4331	3.1	11
30	Determination of 4-Allyl Resorcinol and Chavibetol from Piper beetle Leaves by Subcritical Water Extraction Combined with High-Performance Liquid Chromatography. <i>Food Analytical Methods</i> , 2014 , 7, 893-901	3.4	11
29	Agarose- and alginate-based biopolymers for sample preparation: Excellent green extraction tools for this century. <i>Journal of Separation Science</i> , 2016 , 39, 1152-9	3.4	11
28	Rapid Estimation of Octanol/Water Partition Coefficient for Triazole Fungicides by MEKC with Sodium Deoxycholate as Surfactant. <i>Chromatographia</i> , 2008 , 68, 415-419	2.1	9
27	Fabrication of calixarene-grafted magnetic nanocomposite for the effective removal of lead(II) from aqueous solution. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 2482-2493	2.6	9
26	Multi-walled carbon nanotubes-agarose gel micro-solid phase extraction for the determination of triazine herbicides in water samples. <i>Analytical Methods</i> , 2015 , 7, 2862-2868	3.2	8
25	Preparation and characterization of starch grafted with methacrylamide using ammonium persulphate initiator. <i>Materials Letters</i> , 2016 , 185, 173-176	3.3	8
24	Sol-gel coated polypropylene hollow fiber-based liquid-phase microextraction of triazine herbicides in real water samples. <i>Desalination and Water Treatment</i> , 2015 , 55, 1488-1500		8
23	Calcium Alginate-Caged Multiwalled Carbon Nanotubes Dispersive Microsolid Phase Extraction Combined With Gas Chromatography-Flame Ionization Detection for the Determination of Polycyclic Aromatic Hydrocarbons in Water Samples. <i>Journal of Chromatographic Science</i> , 2018 , 56, 177-186	1.4	7
22	Rapid Determination of Non-steroidal Anti-inflammatory Drugs in Aquatic Matrices by Two-phase Micro-electrodriven Membrane Extraction Combined with Liquid Chromatography. <i>Journal of Chromatographic Science</i> , 2018 , 56, 166-176	1.4	7

21	p-Sulphonatocalix[8]arene functionalized silica resin for the enhanced removal of methylene blue from wastewater: equilibrium and kinetic study. <i>Separation Science and Technology</i> , 2019 , 54, 2240-2251	2.5	7
20	Micro-extraction of Xenobiotics and Biomolecules from Different Matrices on Nanostructures. <i>Separation and Purification Reviews</i> , 2016 , 45, 28-49	7.3	6
19	New sporopollenin-based Cyclodextrin functionalized magnetic hybrid adsorbent for magnetic solid-phase extraction of nonsteroidal anti-inflammatory drugs from water samples. <i>Royal Society Open Science</i> , 2018 , 5, 171311	3.3	6
18	Microwave-Assisted Extraction of Methyl Cyclodextrin-Complexed Curcumin from Turmeric Rhizome Oleoresin. <i>Food Analytical Methods</i> , 2015 , 8, 2447-2456	3.4	5
17	Polypyrrole-magnetite dispersive micro-solid-phase extraction combined with ultraviolet-visible spectrophotometry for the determination of rhodamine 6G and crystal violet in textile wastewater. <i>Journal of Separation Science</i> , 2017 , 40, 4256-4263	3.4	5
16	A rapid MCM-41 dispersive micro-solid phase extraction coupled with LC/MS/MS for quantification of ketoconazole and voriconazole in biological fluids. <i>Biomedical Chromatography</i> , 2017 , 31, e3803	1.7	5
15	A green method for the quantitative assessment of neutral oil in palm fatty acid distillates by single bounce attenuated total reflectance Fourier-transform infrared spectroscopy. <i>RSC Advances</i> , 2015 , 5, 50591-50596	3.7	5
14	High Temperature Liquid Chromatography of Tocol-Derivatives on Polybutadiene-Coated Zirconia Stationary Phases. <i>Chromatographia</i> , 2005 , 61, 567-571	2.1	5
13	Fabrication of calixarene-grafted bio-polymeric magnetic composites for magnetic solid phase extraction of non-steroidal anti-inflammatory drugs in water samples. <i>PeerJ</i> , 2018 , 6, e5108	3.1	4
12	Analyses of Biguanides and Related Compounds in Biological and Environmental Samples by HPLC. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2015 , 38, 303-321	1.3	3
11	Sol-Gel Hybrid Cyanopropyltriethoxysilane-methyltrimethoxysilane as Adsorbent for Dispersive-Micro Solid Phase Extraction of Selected Organophosphorus Pesticides in Water Samples. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014 , 71,	1.2	3
10	Selective and Simultaneous Solid Phase Extraction of Polar and NonPolar Organophosphorus Pesticides Using Sol-Gel Hybrid SilicaBased Sorbent. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2013 , 62,	1.2	3
9	BoxBehnken Experimental Design for the Synthesis of MagnetitePolypyrrole Composite for the Magnetic Solid Phase Extraction of Non-steroidal Anti-inflammatory Drug Residues. <i>Analytical Letters</i> , 2018 , 51, 2221-2239	2.2	3
8	Removal of rhodamine 6G and crystal violet dyes from water sample using cellulose acetate-(3-aminopropyl)-triethoxysilane sorbent 2019 ,		2
7	Comparison of HPLC and MEEKC for Miconazole Nitrate Determination in Pharmaceutical Formulation. <i>Chromatographia</i> , 2013 , 76, 1527-1536	2.1	2
6	Cyclodextrin-modified micellar electrokinetic chromatography for enantioseparations. <i>Methods in Molecular Biology</i> , 2013 , 970, 349-61	1.4	2
5	Vinyl-functionalized mesoporous carbon for dispersive micro-solid phase extraction of azole antifungal agents from aqueous matrices. <i>Separation Science and Technology</i> , 2020 , 55, 3102-3112	2.5	1
4	Molecular docking and density functional theory calculations of vinpocetine and teicoplanin aglycone chiral selector. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2020 , 98, 187-195	1.7	0

- 3 Enantioseparation of Selected Imidazole Drugs Using Dual Cyclodextrin-Modified Micellar Electrokinetic Chromatography. *Methods in Molecular Biology*, **2019**, 1985, 407-416 1.4
- 2 Surface Treatment and Characterization of Polypropylene Hollow Fibers by Sol-Gel Method for Liquid Phase Microextraction **2012**, 179-189
- 1 Magnetic Solid-Phase-Based Sorbents for Isolation/Preconcentration and Removal of Pesticides. *Environmental Chemistry for A Sustainable World*, **2021**, 313-345 0.8