Maria Del Pilar Taboada Sotomayor

List of Publications by Year
in descending order

123 papers	3,391 citations	94433 37 h-index	182427 51 g-index
123 all docs	123 docs citations	123 times ranked	3449 citing authors

#	Article	IF	Citations
1	HRP-based amperometric biosensor for the polyphenols determination in vegetables extract. Sensors and Actuators B: Chemical, 2003, 96, 636-645.	7.8	111
2	An ultrasensitive human cardiac troponin T graphene screen-printed electrode based on electropolymerized-molecularly imprinted conducting polymer. Biosensors and Bioelectronics, 2016, 77, 978-985.	10.1	103
3	A new electrochemical platform based on low cost nanomaterials for sensitive detection of the amoxicillin antibiotic in different matrices. Talanta, 2020, 206, 120252.	5.5	92
4	DEVELOPMENT OF AN ELECTROCHEMICAL SENSOR MODIFIED WITH MWCNT-COOH AND MIP FOR DETECTION OF DIURON. Electrochimica Acta, 2015, 182, 122-130.	5.2	85
5	Construction and evaluation of an optical pH sensor based on polyanilineâ€“porous Vycor glass nanocomposite. Sensors and Actuators B: Chemical, 2001, 74, 157-162.	7.8	82
6	The application of graphene for in vitro and in vivo electrochemical biosensing. Biosensors and Bioelectronics, 2017, 89, 224-233.	10.1	78
7	Development and application of an electrochemical sensor modified with multi-walled carbon nanotubes and graphene oxide for the sensitive and selective detection of tetracycline. Journal of Electroanalytical Chemistry, 2015, 757, 250-257.	3.8	77
8	Magnetically separable polymer (Mag-MIP) for selective analysis of biotin in food samples. Food Chemistry, 2016, 190, 460-467.	8.2	76
9	Electrochemical sensing of methyl parathion on magnetic molecularly imprinted polymer. Biosensors and Bioelectronics, 2018, 118, 181-187.	10.1	75
10	Disposable immunosensor for human cardiac troponin T based on streptavidin-microsphere modified screen-printed electrode. Biosensors and Bioelectronics, 2010, 26, 1062-1067.	10.1	71
11	SiO2/Nb2O5 solâ€“gel as a support for HRP immobilization in biosensor preparation for phenol detection. Electrochimica Acta, 2002, 47, 4451-4458.	5.2	68
12	Synthesis and characterization of magnetic-molecularly imprinted polymers for the HPLC-UV analysis of ametryn. Reactive and Functional Polymers, 2018, 122, 175-182.	4.1	66
13	Development of an enzymeless biosensor for the determination of phenolic compounds. Analytica Chimica Acta, 2002, 455, 215-223.	5.4	65
14	PolÃmeros biomimÃ©ticos em quÃmica analÃtica. Parte 1: preparo e aplicaÃ§Ãµes de MIP ("Molecularly) Tj ETQq0 0 0 rgBT /Overlock 10	0.3	62
15	Electrochemical sensors based on biomimetic magnetic molecularly imprinted polymer for selective quantification of methyl green in environmental samples. Materials Science and Engineering C, 2019, 103, 109825.	7.3	62
16	Tris (2,2â€²-bipyridil) copper (II) chloride complex: a biomimetic tyrosinase catalyst in the amperometric sensor construction. Electrochimica Acta, 2003, 48, 855-865.	5.2	60
17	Study on the cross-linked molecularly imprinted poly(methacrylic acid) and poly(acrylic acid) towards selective adsorption of diuron. Reactive and Functional Polymers, 2016, 100, 26-36.	4.1	57
18	Synthesis and evaluation of a molecularly imprinted polymer for selective adsorption and quantification of Acid Green 16 textile dye in water samples. Talanta, 2017, 170, 244-251.	5.5	56

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19	Î²-Lactamase-based biosensor for the electrochemical determination of benzylpenicillin in milk. Sensors and Actuators B: Chemical, 2015, 210, 254-258.	7.8	54
20	Amperometric biosensor based on horseradish peroxidase for biogenic amine determinations in biological samples. Journal of Pharmaceutical and Biomedical Analysis, 2005, 37, 785-791.	2.8	52
21	Magnetic molecularly imprinted polymer for the isolation and detection of biotin and biotinylated biomolecules. Biosensors and Bioelectronics, 2017, 88, 101-108.	10.1	48
22	Determination of carbofuran and diuron in FIA system using electrochemical sensor modified with organometallic complexes and graphene oxide. Journal of Electroanalytical Chemistry, 2014, 731, 163-171.	3.8	47
23	A molecularly imprinted polymer-based evanescent wave fiber optic sensor for the detection of basic red 9 dye. Sensors and Actuators B: Chemical, 2015, 218, 222-228.	7.8	45
24	A label-free immunosensor based on recordable compact disk chip for early diagnostic of the dengue virus infection. Biochemical Engineering Journal, 2012, 67, 225-230.	3.6	44
25	Glutathione-s-transferase modified electrodes for detecting anticancer drugs. Biosensors and Bioelectronics, 2014, 58, 232-236.	10.1	44
26	A disposable chitosan-modified carbon fiber electrode for dengue virus envelope protein detection. Talanta, 2012, 91, 41-46.	5.5	43
27	Sensor for diuron quantitation based on the P450 biomimetic catalyst nickel(II) 1,4,8,11,15,18,22,25-octabutoxy-29H,31H-phthalocyanine. Journal of Electroanalytical Chemistry, 2013, 690, 83-88.	3.8	43
28	Multi-walled carbon nanotubes modified screen-printed electrodes for cisplatin detection. Electrochimica Acta, 2015, 158, 271-276.	5.2	43
29	Theoretical and experimental study for the biomimetic recognition of levothyroxine hormone on magnetic molecularly imprinted polymer. Biosensors and Bioelectronics, 2018, 107, 203-210.	10.1	43
30	Development of a new electrochemical sensor based on silver sulfide nanoparticles and hierarchical porous carbon modified carbon paste electrode for determination of cyanide in river water samples. Sensors and Actuators B: Chemical, 2019, 287, 544-550.	7.8	43
31	Fiber-optic pH sensor based on Poly(o-methoxyaniline). Analytica Chimica Acta, 1997, 353, 275-280.	5.4	42
32	Penicillinase-based amperometric biosensor for penicillin G. Electrochemistry Communications, 2014, 38, 131-133.	4.7	42
33	Development of an amperometric sensor for phenol compounds using a NafionÂ® membrane doped with copper dipyridyl complex as a biomimetic catalyst. Journal of Electroanalytical Chemistry, 2002, 536, 71-81.	3.8	40
34	A new biomimetic sensor based on molecularly imprinted polymers for highly sensitive and selective determination of hexazinone herbicide. Sensors and Actuators B: Chemical, 2015, 208, 299-306.	7.8	40
35	Voltammetric determination of ethinylestradiol using screen-printed electrode modified with functionalized graphene, graphene quantum dots and magnetic nanoparticles coated with molecularly imprinted polymers. Talanta, 2021, 224, 121804.	5.5	40
36	Cobalt phthalocyanine as a biomimetic catalyst in the amperometric quantification of dipyrone using FIA. Talanta, 2011, 85, 2067-2073.	5.5	38

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37	Preparation of crosslinked chitosan magnetic membrane for cations sorption from aqueous solution. Water Science and Technology, 2017, 75, 2034-2046.	2.5	38
38	Iron(iii) tetra-(N-methyl-4-pyridyl)-porphyrin as a biomimetic catalyst of horseradish peroxidase on the electrode surface: An amperometric sensor for phenolic compound determinations. Analyst, The, 2003, 128, 255-259.	3.5	37
39	Biomimetic sensor based on 5,10,15,20-tetrakis(pentafluorophenyl)-21H,23H-porphyrin iron (III) chloride and MWCNT for selective detection of 2,4-D. Sensors and Actuators B: Chemical, 2013, 181, 332-339.	7.8	37
40	Determination of Phenolic Compounds Based on Co-Immobilization of Methylene Blue and HRP on Multi-Wall Carbon Nanotubes. Electroanalysis, 2007, 19, 549-554.	2.9	36
41	Biomimetic magnetic sensor for electrochemical determination of scombrotoxin in fish. Talanta, 2019, 194, 997-1004.	5.5	36
42	Synthesis, characterization, and evaluation of a selective molecularly imprinted polymer for quantification of the textile dye acid violet 19 in real water samples. Journal of Hazardous Materials, 2020, 384, 121374.	12.4	36
43	Evaluation of the performance of selective M-MIP to tetracycline using electrochemical and HPLC-UV method. Materials Chemistry and Physics, 2020, 245, 122777.	4.0	35
44	Simultaneous determination of direct yellow 50, tryptophan, carbendazim, and caffeine in environmental and biological fluid samples using graphite pencil electrode modified with palladium nanoparticles. Talanta, 2021, 222, 121539.	5.5	35
45	A novel core@shell magnetic molecular imprinted nanoparticles for selective determination of folic acid in different food samples. Reactive and Functional Polymers, 2016, 106, 51-56.	4.1	34
46	A simple, sensitive and efficient electrochemical platform based on carbon paste electrode modified with Fe3O4@MIP and graphene oxide for folic acid determination in different matrices. Talanta, 2021, 229, 122258.	5.5	34
47	Electrochemical sensing using magnetic molecularly imprinted polymer particles previously captured by a magneto-sensor. Talanta, 2018, 181, 19-23.	5.5	32
48	SERS-based immunoassay for monitoring cortisol-related disorders. Biosensors and Bioelectronics, 2020, 165, 112418.	10.1	32
49	Electrochemical sensor for dodecyl gallate determination based on electropolymerized molecularly imprinted polymer. Sensors and Actuators B: Chemical, 2017, 253, 180-186.	7.8	30
50	Novel electrochemical genosensor for Zika virus based on a poly-(3-amino-4-hydroxybenzoic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T	7.8	30
51	Using magnetic nanoparticles/MIP-based electrochemical sensor for quantification of tetracycline in milk samples. Journal of Electroanalytical Chemistry, 2021, 900, 115713.	3.8	28
52	Voltammetric determination of 17Î²-estradiol in different matrices using a screen-printed sensor modified with CuPc, Printex 6L carbon and Nafion film. Microchemical Journal, 2019, 147, 365-373.	4.5	26
53	Development of an Amperometric Sensor Highly Selective For Dopamine and Analogous Compounds Determination Using Bis(2,2â€²-Bipyridil) Copper(II) Chloride Complex. Electroanalysis, 2003, 15, 787-796.	2.9	25
54	Electrochemical sensor highly selective for estradiol valerate determination based on a modified carbon paste with iron tetrapyridinoporphyrazine. Analyst, The, 2008, 133, 1692.	3.5	25

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55	Synthesis, characterization and application of a novel ion hybrid imprinted polymer to adsorb Cd(II) in different samples. Environmental Research, 2020, 187, 109669.	7.5	25
56	PolÃmeros biomimÃ©ticos em quÃmica analÃtica. Parte 2: aplicaÃ§Ãµes de MIP ("Molecularly Imprinted) Tj ETQq0 0 0 rgBT /Overlock 10	0.3	25
57	PolÃmeros impressos com Ãons: fundamentos, estratÃ©gias de preparo e aplicaÃ§Ãµes em quÃmica analÃtica. Quimica Nova, 2013, 36, 1194-1207.	0.3	23
58	DEVELOPMENT OF A BIOMIMETIC SENSOR MODIFIED WITH HEMIN AND GRAPHENE OXIDE FOR MONITORING OF CARBOFURAN IN FOOD. Electrochimica Acta, 2014, 146, 830-837.	5.2	23
59	Voltammetric sensor based on glassy carbon electrode modified with hierarchical porous carbon, silver sulfide nanoparticles and fullerene for electrochemical monitoring of nitrite in food samples. Food Chemistry, 2022, 383, 132384.	8.2	23
60	Flow injection analysis of paracetamol using a biomimetic sensor as a sensitive and selective amperometric detector. Analytical Methods, 2010, 2, 507.	2.7	21
61	Fast assembly of non-thiolated DNA on gold surface at lower pH. Journal of Colloid and Interface Science, 2013, 411, 92-97.	9.4	21
62	Magnetic molecularly imprinted polymers obtained by photopolymerization for selective recognition of penicillin G. Journal of Applied Polymer Science, 2020, 137, 48496.	2.6	21
63	Enzymeless biosensors: uma nova Ãrea para o desenvolvimento de sensores amperomÃ©tricos. Quimica Nova, 2002, 25, 123-128.	0.3	19
64	Development of a New Electrochemical Sensor Based on Mag-MIP Selective Toward Amoxicillin in Different Samples. Frontiers in Chemistry, 2021, 9, 615602.	3.6	19
65	Core-shell magnetic molecularly imprinted polymer for selective recognition and detection of sunset yellow in aqueous environment and real samples. Environmental Research, 2022, 212, 113209.	7.5	19
66	Rational Design of an Ion-Imprinted Polymer for Aqueous Methylmercury Sorption. Nanomaterials, 2020, 10, 2541.	4.1	18
67	Construction and application of an electrochemical sensor for paracetamol determination based on iron tetrapyridinoporphyrazine as a biomimetic catalyst of P450 enzyme. Journal of the Brazilian Chemical Society, 2008, 19, 734-743.	0.6	17
68	Determination of Cephalosporins by UHPLC-DAD Using Molecularly Imprinted Polymers. Journal of Chromatographic Science, 2018, 56, 187-193.	1.4	17
69	Synthesis of a new magnetic-MIP for the selective detection of 1-chloro-2,4-dinitrobenzene, a highly allergenic compound. Materials Science and Engineering C, 2017, 74, 365-373.	7.3	16
70	Surface molecularly imprinted core-shell nanoparticles and reflectance spectroscopy for direct determination of tartrazine in soft drinks. Analytica Chimica Acta, 2021, 1159, 338443.	5.4	16
71	Development of magnetic nanoparticles modified with new molecularly imprinted polymer (MIPs) for selective analysis of glutathione. Sensors and Actuators B: Chemical, 2021, 344, 130171.	7.8	16
72	Application of (2,2â€²:6â€²,2â€³-terpyridyl) copper(II) chloride complex in sensor construction for benzoyl peroxide determination in pharmaceutical samples. Analytica Chimica Acta, 2003, 494, 199-205.	5.4	15

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73	Bi-enzymatic optode detection system for oxalate determination based on a natural source of enzyme. Analytica Chimica Acta, 2001, 447, 33-40.	5.4	14
74	Desenvolvimento e avaliaÃ§Ã£o de eletrodos de difusÃ£o gasosa (EDG) para geraÃ§Ã£o de H2O2 in situ e sua aplicaÃ§Ã£o na degradaÃ§Ã£o do corante reativo azul 19. Quimica Nova, 2012, 35, 1961-1966.	0.3	14
75	Next generation of optodes coupling plastic antibody with optical fibers for selective quantification of Acid Green 16. Sensors and Actuators B: Chemical, 2020, 305, 127553.	7.8	14
76	A new electrochemical sensor based on eco-friendly chemistry for the simultaneous determination of toxic trace elements. Microchemical Journal, 2020, 158, 105292.	4.5	14
77	Magnetic-molecularly imprinted polymers in electrochemical sensors and biosensors. Analytical and Bioanalytical Chemistry, 2021, 413, 6141-6157.	3.7	14
78	A new electrochemical platform based on carbon black paste electrode modified with Î±-cyclodextrin and hierarchical porous carbon used for the simultaneous determination of dipyrone and codeine. Microchemical Journal, 2021, 164, 106032.	4.5	13
79	Electroanalytical determination of bumetanide employing a biomimetic sensor for detection of doping in sports. Analytical Methods, 2014, 6, 5792-5798.	2.7	12
80	A novel peptide-based electrochemical biosensor for breast cancer characterization over a poly 3-(3-aminophenyl) propionic acid matrix. Biosensors and Bioelectronics, 2022, 205, 114081.	10.1	12
81	Development of a biomimetic sensor for selective identification of cyanide. Analytical Methods, 2016, 8, 6353-6360.	2.7	11
82	Voltammetric sensing of glyphosate in different samples using carbon paste electrode modified with biochar and copper(II) hexadecafluoro-29H,31 phtalocyanine complex. Journal of Applied Electrochemistry, 2021, 51, 761-768.	2.9	11
83	Development and Application of a Highly Selective Biomimetic Sensor for Detection of Captopril, an Important Ally in Hypertension Control. Combinatorial Chemistry and High Throughput Screening, 2010, 13, 666-674.	1.1	10
84	Amperometric Tyrosinase Biosensor Based on Carbon Black Paste Electrode for Sensitive Detection of Catechol in Environmental Samples. Electroanalysis, 2021, 33, 431-437.	2.9	10
85	Electrochemical sensor based on 1,8-dihydroxyanthraquinone adsorbed on a glassy carbon electrode for the detection of [Cu(CN)3](aq)2â˜ in alkaline cyanide copper plating baths waste. Journal of Electroanalytical Chemistry, 2021, 880, 114909.	3.8	10
86	Application of a biomimetic sensor based on iron phthalocyanine chloride: 4-methylbenzylidene-camphor detection. Journal of the Brazilian Chemical Society, 2010, 21, 1377-1383.	0.6	9
87	Preparation of a magnetic molecularly imprinted polymer for non-invasive determination of cortisol. Journal of Polymer Research, 2021, 28, 1.	2.4	9
88	Nanostructured Sensors for Determination of 3-(3,4-Dichlorophenyl)-1,1-Dimethylurea Based in Molecularly Imprinted Polymers (MIPs) Deposited in Screen Printed Carbon Nanotubes. ECS Transactions, 2015, 66, 33-41.	0.5	8
89	Modified screen-printed electrode for the FIA-amperometric determination of 2-nitro-p-phenylenediamine. Microchemical Journal, 2017, 131, 92-97.	4.5	8
90	Use of two functional monomers for a new approach to the synthesis of a magnetic molecularly imprinted polymer for ciprofloxacin. Journal of Materials Research and Technology, 2021, 15, 511-523.	5.8	8

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91	Semi-Empirical Quantum Chemistry Method for Pre-Polymerization Rational Design of Ciprofloxacin Imprinted Polymer and Adsorption Studies. Journal of the Brazilian Chemical Society, 2015, , .	0.6	8
92	Voltammetric sensing of tryptophanÂin dark chocolate bars, skimmed milk and urine samples in the presence of dopamine and caffeine. Journal of Applied Electrochemistry, 2022, 52, 1249-1257.	2.9	8
93	Studies of the Electrochemical Degradation of Acetaminophen Using a Real-Time Biomimetic Sensor. Electroanalysis, 2011, 23, 2616-2621.	2.9	7
94	Modified carbon paste electrode for the electrochemical sensing of 3,5,6-trichloro-2-pyridinol. International Journal of Environmental Analytical Chemistry, 2017, 97, 159-167.	3.3	6
95	Assessment of molecularly imprinted polymers (MIPs) in the preconcentration of disperse red 73 dye prior to photoelectrocatalytic treatment. Environmental Science and Pollution Research, 2017, 24, 4134-4143.	5.3	6
96	Molecularly Imprinted Polymer (MIP): A Promising Recognition System for Development of Optical Sensor for Textile Dyes. Procedia Technology, 2017, 27, 299-300.	1.1	6
97	Systematic study on the synthesis of novel ion-imprinted polymers based on rhodizonate for the highly selective removal of Pb(II). Reactive and Functional Polymers, 2021, 159, 104805.	4.1	6
98	A novel highly sensitive imprinted polymer-based optical sensor for the detection of Pb(II) in water samples. Environmental Nanotechnology, Monitoring and Management, 2021, 16, 100497.	2.9	6
99	Characterization and evaluation of antioxidant and antimicrobial capacity of prepared liquid smoke-loaded chitosan nanoparticles. Journal of Food Engineering, 2022, 319, 110912.	5.2	6
100	AplicaÃ§Ã£o e avanÃ§os da espectroscopia de luminescÃªncia em anÃ¡lises farmacÃªuticas. Quimica Nova, 2008, 31, 1755-1774.	0.3	5
101	Selective UV-filter detection with sensors based on stainless steel electrodes modified with polyaniline doped with metal tetrasulfonated phthalocyanine films. Analyst, The, 2009, 134, 1453.	3.5	5
102	Influence of gamma irradiation on a natural source of peroxidase and its effect in the reagentless amperometric biosensor for hydrogen peroxide. Analyst, The, 2001, 126, 739-742.	3.5	4
103	Determination of Metribuzin with a Cobalt Phthalocyanine-Modified Carbon Paste Electrode. Analytical Letters, 2018, 51, 1694-1704.	1.8	4
104	Development of Biomimetic Sensor for Fast and Sensitive Detection of Norfloxacin. The Open Chemical and Biomedical Methods Journal, 2010, 3, 98-107.	0.5	4
105	A Fluorescence Spot Test for Salicylate Determination. Analytical Letters, 2007, 40, 573-583.	1.8	3
106	Carbamide Peroxide Determination in Tooth Whitening Using a Reagentless HRP-Biosensor. Analytical Letters, 2009, 42, 352-365.	1.8	3
107	A New Electrochemical Platform Based on a Polyurethane Composite Electrode Modified with Magnetic Nanoparticles Coated with Molecularly Imprinted Polymer for the Determination of Estradiol Valerate in Different Matrices. Journal of the Brazilian Chemical Society, 0, , .	0.6	3
108	Magnetic MIPs: Synthesis and Applications. Methods in Molecular Biology, 2021, 2359, 85-96.	0.9	3

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109	A Selective Electrochemical Sensor for the Detection of Cd(II) Based on a Carbon Paste Electrode Impregnated with a Novel Ionâ€imprinted Hybrid Polymer. Electroanalysis, 2021, 33, 1557-1566.	2.9	3
110	Online Monitoring of Electrochemical Degradation of Paracetamol through a Biomimetic Sensor. International Journal of Electrochemistry, 2011, 2011, 1-11.	2.4	2
111	Nanostructured Screen-Printed Electrodes Modified with Self-Assembled Monolayers for Determination of Metronidazole in Different Matrices. Journal of the Brazilian Chemical Society, 2014, , .	0.6	2
112	A spot test for direct quantification of acid green 16 adsorbed on a molecularly imprinted polymer through diffuse reflectance measurements. Analytical Methods, 2021, 13, 453-461.	2.7	2
113	A pH optode based on thymol blue: application to determination of CO2 using flow injection analysis system. Ecletica Quimica, 2010, 35, 33-43.	0.5	2
114	Simple and highly sensitive 2-hydroxy-1,4-naphthoquinone/glassy carbon sensor for the electrochemical detection of [Ni(CN)4]2â^' in metallurgical industry wastewater. Journal of Applied Electrochemistry, 2022, 52, 1053-1065.	2.9	2
115	Monitoring of Diclofenac with Biomimetic Sensor in Batch and FIA Systems. Journal of the Brazilian Chemical Society, 2014, , .	0.6	1
116	PANORAMA DA ELETROQUÃMICA E ELETROANALÃTICA NO BRASIL. Quimica Nova, 2017, , .	0.3	1
117	Molecularly imprinted polymer composites as sensor. , 2021, , 227-265.		1
118	A pH OPTODE BASED ON THYMOL BLUE: APPLICATION TO DETERMINATION OF CO2 USING FLOW INJECTION ANALY SIS SYSTEM. Ecletica Quimica, 0, 35, 33.	0.5	1
119	Biomimetic Sensor for Detection of Hydrochlorothiazide Employing Amperometric Detection and Chemometrics for Application in Doping in Sports. Journal of the Brazilian Chemical Society, 2015, , .	0.6	1
120	Development of a selective molecularly imprinted polymer for troponin T detection: a theoretical-experimental approach. Materials Today Communications, 2022, 30, 102996.	1.9	1
121	Using Carbon Paste Electrode Modified with Ion Imprinted Polymer and MWCNT for Electrochemical Quantification of Methylmercury in Natural Water Samples. Biosensors, 2022, 12, 376.	4.7	1
122	SENSOR POTENCIOMÃ‰TRICO BASADO EN NANOPARTÃCULAS DE SULFURO DE PLATA SOPORTADAS EN MATERIALES CARBONOSOS PARA LA DETECCIÃ“N DE CIANURO LIBRE. Quimica Nova, 2019, , .	0.3	0
123	Non-toxic nature of nano-biosorbents as a positive approach toward green environment. , 2022, , 187-226.		0