

Sudheer Khan S

List of Publications by Citations

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101
papers

2,089
citations

24
h-index

41
g-index

109
ext. papers

2,694
ext. citations

5.5
avg, IF

5.67
L-index

#	Paper	IF	Citations
101	Biofunctionalized silver nanoparticles: advances and prospects. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 105, 342-52	6	270
100	Cytogenetic and genotoxic effects of zinc oxide nanoparticles on root cells of <i>Allium cepa</i> . <i>Journal of Hazardous Materials</i> , 2011 , 190, 613-21	12.8	267
99	Formulation of water-dispersible nanopermethrin for larvicidal applications. <i>Ecotoxicology and Environmental Safety</i> , 2010 , 73, 1932-6	7	115
98	Studies on interaction of colloidal silver nanoparticles (SNPs) with five different bacterial species. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 87, 129-38	6	68
97	Impact of exopolysaccharides on the stability of silver nanoparticles in water. <i>Water Research</i> , 2011 , 45, 5184-90	12.5	63
96	Effect of various capping agents on photocatalytic, antibacterial and antibiofilm activities of ZnO nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 160, 32-42	6.7	60
95	Interaction of silver nanoparticles (SNPs) with bacterial extracellular proteins (ECPs) and its adsorption isotherms and kinetics. <i>Journal of Hazardous Materials</i> , 2011 , 192, 299-306	12.8	57
94	Degradation of triclosan under aerobic, anoxic, and anaerobic conditions. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 167, 1603-12	3.2	55
93	Highly selective colorimetric detection and estimation of Hg ²⁺ at nano-molar concentration by silver nanoparticles in the presence of glutathione. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 137, 503-8	4.4	44
92	Adsorptive removal of silver nanoparticles (SNPs) from aqueous solution by <i>Aeromonas punctata</i> and its adsorption isotherm and kinetics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 92, 156-60	6	43
91	Diesel biodegradation capacities of indigenous bacterial species isolated from diesel contaminated soil. <i>Journal of Environmental Health Science & Engineering</i> , 2014 , 12, 142	2.9	40
90	Interaction of colloidal zinc oxide nanoparticles with bovine serum albumin and its adsorption isotherms and kinetics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 102, 195-201	6	40
89	Toxic behavior of silver and zinc oxide nanoparticles on environmental microorganisms. <i>Journal of Basic Microbiology</i> , 2014 , 54, 916-27	2.7	38
88	Photocatalytic activation of CdS NPs under visible light for environmental cleanup and disinfection. <i>Solar Energy</i> , 2014 , 105, 542-547	6.8	37
87	Enhancement of visible light photocatalytic activity of CdO modified ZnO nanohybrid particles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 142, 1-7	6.7	32
86	Rapid colorimetric detection of mercury using silver nanoparticles in the presence of methionine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 228, 117712	4.4	32
85	Silver nanoparticles tolerant bacteria from sewage environment. <i>Journal of Environmental Sciences</i> , 2011 , 23, 346-52	6.4	30

84	Synthesis and characterization of silver sulfide nanoparticles for photocatalytic and antimicrobial applications. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014 , 141, 235-40	6.7	28
83	Bioremoval of Basic Violet 3 and Acid Blue 93 by <i>Pseudomonas putida</i> and its adsorption isotherms and kinetics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 102, 379-84	6	28
82	Bacterial tolerance to silver nanoparticles (SNPs): <i>aeromonas punctata</i> isolated from sewage environment. <i>Journal of Basic Microbiology</i> , 2011 , 51, 183-90	2.7	26
81	Elucidation of photocatalysis, photoluminescence and antibacterial studies of Ag ₂ MoO ₄ decorated NiMoO ₄ nano-heterostructure. <i>Optical Materials</i> , 2021 , 113, 110856	3.3	25
80	Effect of humic acid on the toxicity of bare and capped ZnO nanoparticles on bacteria, algal and crustacean systems. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 167, 136-149	6.7	24
79	Effect of humic acid on photocatalytic activity of ZnO nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014 , 138, 155-9	6.7	24
78	Facile synthesis of Bi ₂ MoO ₆ -Ag ₂ MoO ₄ nanocomposite for the enhanced visible light photocatalytic removal of methylene blue and its antimicrobial application. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116350	6	24
77	Designing spinel NiCr ₂ O ₄ loaded Bi ₂ O ₃ semiconductor hybrid for mitigating the charge recombination and tuned band gap for enhanced white light photocatalysis and antibacterial applications. <i>Journal of Alloys and Compounds</i> , 2021 , 865, 158735	5.7	23
76	Construction of nano-heterojunction AgFeO ₂ /ZnO for boosted photocatalytic performance and its antibacterial applications. <i>Materials Science in Semiconductor Processing</i> , 2021 , 133, 105924	4.3	20
75	Toxic potential of iron oxide, CdS/Ag ₂ S composite, CdS and Ag ₂ S NPs on a fresh water alga <i>Mougeotia</i> sp. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 125, 284-90	6	19
74	Interaction of colloidal silver nanoparticles (SNPs) with exopolysaccharides (EPS) and its adsorption isotherms and kinetics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 381, 99-105	5.1	18
73	Integrating Ag ₂ WO ₄ on VS ₄ nanoplates with synergy of plasmonic photocatalysis and boosted visible-light harvesting and its antibacterial applications. <i>Journal of Alloys and Compounds</i> , 2021 , 865, 158810	5.7	18
72	Bioremoval of Direct Red from aqueous solution by <i>Pseudomonas putida</i> and its adsorption isotherms and kinetics. <i>Ecological Engineering</i> , 2013 , 58, 207-213	3.9	17
71	Rapid colorimetric and spectroscopy based sensing of mercury by surface functionalized silver nanoparticles in the presence of tyrosine. <i>Optics Communications</i> , 2020 , 464, 125512	2	16
70	Highly selective and effective environmental mercuric ion detection method based on starch modified Ag NPs in presence of glycine. <i>Optics Communications</i> , 2020 , 465, 125564	2	16
69	A simple approach for the synthesis of bi-functional p-n type ZnO@CuFe ₂ O ₄ heterojunction nanocomposite for photocatalytic and antimicrobial application. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 130, 114664	3	16
68	UV-Vis spectroscopic method for the sensitive and selective detection of mercury by silver nanoparticles in presence of alanine. <i>Optik</i> , 2020 , 204, 164160	2.5	15
67	Toxic effect of environmentally relevant concentration of silver nanoparticles on environmentally beneficial bacterium <i>Pseudomonas putida</i> . <i>Bioprocess and Biosystems Engineering</i> , 2015 , 38, 1243-9	3.7	14

66	Colorimetric detection of mercury ions from environmental water sample by using 3-(Trimethoxysilyl)propyl methacrylate functionalized Ag NPs-tryptophan nanoconjugate. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 207, 111888	6.7	14
65	Highly sensitive and selective colorimetric detection of arginine by polyvinylpyrrolidone functionalized silver nanoparticles. <i>Journal of Molecular Liquids</i> , 2020 , 300, 112361	6	14
64	Enhanced visible light driven photocatalytic and antibacterial activities of Ag ₂ WO ₄ decorated ZnS nanocomposite. <i>Ceramics International</i> , 2021 , 47, 12997-13006	5.1	14
63	Preparation of plasmonic CoS/Ag ₂ WO ₄ nanocomposites: Efficient visible light driven photocatalysts and enhanced anti-microbial activity. <i>Colloids and Interface Science Communications</i> , 2021 , 42, 100415	5.4	14
62	Impact of bovine serum albumin - A protein corona on toxicity of ZnO NPs in environmental model systems of plant, bacteria, algae and crustaceans. <i>Chemosphere</i> , 2021 , 270, 128629	8.4	14
61	Decoration of Ag ₂ WO ₄ on plate-like MnS for mitigating the charge recombination and tuned bandgap for enhanced white light photocatalysis and antibacterial applications. <i>Journal of Alloys and Compounds</i> , 2022 , 889, 161662	5.7	14
60	Influence of humic acid on the stability and bacterial toxicity of zinc oxide nanoparticles in water. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 153, 289-95	6.7	13
59	Synthesis of Carbon Stabilized Zinc Oxide Nanoparticles and Evaluation of Its Photocatalytic, Antibacterial and Anti-biofilm Activities. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 2279-2288	3.2	13
58	Sensitive and robust colorimetric assay for the detection of Hg ²⁺ at nanomolar level from real samples by TPM functionalized Ag-Fe NCs and its photocatalytic and antimicrobial activities. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104305	6.8	12
57	Facile synthesis of Ag/Cu-cellulose nanocomposite for detection, photocatalysis and anti-microbial applications. <i>Optik</i> , 2020 , 220, 165218	2.5	11
56	Preparation of Ag-cellulose nanocomposite for the selective detection and quantification of mercury at nanomolar level and the evaluation of its photocatalytic performance. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 911-919	7.9	11
55	Performance analysis of novel Bi ₆ Cr ₂ O ₁₅ coupled Co ₃ O ₄ nano-heterostructure constructed by ultrasonic assisted method: Visible-light driven photocatalyst and antibacterial agent. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 622, 126671	5.1	11
54	Enhanced optoelectronic properties of multifunctional MnFe ₂ O ₄ nanorods decorated Co ₃ O ₄ nanoheterostructure: Photocatalytic activity and antibacterial behavior. <i>Materials Science in Semiconductor Processing</i> , 2021 , 134, 105992	4.3	11
53	Polyethylene glycol functionalised Ag NPs based optical probe for the selective and sensitive detection of Hg(II). <i>Journal of Molecular Liquids</i> , 2020 , 307, 112978	6	10
52	The Effect of Various Capping Agents on Surface Modifications of CdO NPs and the Investigation of Photocatalytic Performance, Antibacterial and Anti-biofilm Activities. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 1865-1876	3.2	10
51	Novel NiS/Ag ₂ MoO ₄ heterostructure nanocomposite: Synthesis, characterization and superior antibacterial and enhanced photocatalytic activity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 133, 114767	3	10
50	Facile synthesis of MgS/Ag ₂ MoO ₄ nanohybrid heterojunction: Outstanding visible light harvesting for boosted photocatalytic degradation of MB and its anti-microbial applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 627, 127097	5.1	10
49	Biodegradation of Basic Violet 3 and Acid Blue 93 by <i>Pseudomonas putida</i> . <i>Clean - Soil, Air, Water</i> , 2015 , 43, 67-72	1.6	9

48	Citrate functionalized Ag NPs-polyethylene glycol nanocomposite for the sensitive and selective detection of mercury (II) ion, photocatalytic and antimicrobial applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 124, 114335	3	9
47	Highly selective and sensitive tool for the detection of Hg(II) using 3-(Trimethoxysilyl) propyl methacrylate functionalized Ag-Ce nanocomposite from real water sample. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 242, 118738	4.4	9
46	Development of silver-polyvinylpyrrolidone nanocomposite for the selective and sensitive detection of sulfide from aqueous sample and its antimicrobial activity. <i>Materials Chemistry and Physics</i> , 2021 , 257, 123789	4.4	9
45	Novel CoWO ₄ -Ag ₂ MoO ₄ NCs: Synthesis, enhanced photocatalytic activity under visible-light irradiation and its antimicrobial activity. <i>Surfaces and Interfaces</i> , 2021 , 25, 101237	4.1	9
44	Synthesis of novel heterostructured FeS ₂ /Ag ₂ MoO ₄ nanocomposite: Characterization, efficient antibacterial and enhanced visible light driven photocatalytic activity. <i>Surfaces and Interfaces</i> , 2021 , 23, 101003	4.1	8
43	Ibuprofen removal from aqueous solution via light-harvesting photocatalysis by nano-heterojunctions: A review. <i>Separation and Purification Technology</i> , 2021 , 279, 119709	8.3	8
42	Spinel FeV ₂ O ₄ coupling on nanocube-like Bi ₂ O ₃ for high performance white light photocatalysis and antibacterial applications. <i>Journal of Alloys and Compounds</i> , 2021 , 887, 161432	5.7	8
41	Enhanced SPR signals based on methylenediphosphonic acid functionalized Ag NPs for the detection of Hg(II) in the presence of an antioxidant glutathione. <i>Journal of Molecular Liquids</i> , 2020 , 311, 113281	6	7
40	Facile construction of 3D CdS-Ag ₂ S nanospheres: a combined study of visible light responsive photocatalysis, antibacterial and anti-biofilm activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 632, 127729	5.1	7
39	High performance MnO ₂ /Al ₂ O ₃ nanocomposite as white light photocatalyst and bactericidal agent: Insights on photoluminescence and intrinsic mechanism. <i>Optical Materials</i> , 2021 , 120, 111438	3.3	7
38	Effect of exopolysaccharides on photocatalytic activity of ZnO nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 122, 611-616	6	6
37	Insights into photocatalytic mechanism for the rational design of p-n heterojunction by decorating mesoporous SnS ₂ over ZnFe ₂ O ₄ nanocomposite for accelerated visible light photocatalysis. <i>Materials Chemistry and Physics</i> , 2021 , 277, 125464	4.4	6
36	Designing intimate porous Al ₂ O ₃ decorated 2D CdO nano-heterojunction as enhanced white light driven photocatalyst and antibacterial agent. <i>Journal of Alloys and Compounds</i> , 2021 , 162807	5.7	6
35	CuO loaded ZnS nanoflower entrapped on PVA-chitosan matrix for boosted visible light photocatalysis for tetracycline degradation and anti-bacterial application.. <i>Journal of Environmental Management</i> , 2022 , 306, 114396	7.9	6
34	Recent developments in architecturing the g-CN based nanostructured photocatalysts: Synthesis, modifications and applications in water treatment. <i>Chemosphere</i> , 2021 , 132735	8.4	6
33	A potent multifunctional Ag/Co-polyvinylpyrrolidone nanocomposite for enhanced detection of Cr(III) from environmental samples and its photocatalytic and antibacterial applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 243, 118766	4.4	6
32	Synthesis of CTAB functionalized MnS/PVP-Ag nanocomposite for Hg ²⁺ detection, photocatalysis and antibacterial application. <i>Optical Materials</i> , 2020 , 110, 110452	3.3	6
31	Development of multifunctional Cu sensitized Ag-dextran nanocomposite for selective and sensitive detection of mercury from environmental sample and evaluation of its photocatalytic and anti-microbial applications. <i>Journal of Molecular Liquids</i> , 2021 , 321, 114742	6	6

30	Visible light driven photocatalytic activity and efficient antibacterial activity of ZnFe ₂ O ₄ decorated CdO nanohybrid heterostructures synthesized by ultrasonic-assisted method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 628, 127307	5.1	6
29	Fabrication of intimately coupled CeO ₂ /ZnFe ₂ O ₄ nano-heterojunction for visible-light photocatalysis and bactericidal application. <i>Materials Chemistry and Physics</i> , 2022 , 279, 125759	4.4	5
28	Recent advances in degradation of organic pollutant in aqueous solutions using bismuth based photocatalysts: A review.. <i>Chemosphere</i> , 2021 , 290, 133228	8.4	5
27	Cytotoxicological evaluation of copper oxide nanoparticles on green algae, bacteria and crustacean systems. <i>Journal of Environmental Health Science & Engineering</i> , 2020 , 18, 1465-1472	2.9	5
26	Synthesis and characterizations of hybrid PEG-FeO nanoparticles for the efficient adsorptive removal of dye and antibacterial, and antibiofilm applications. <i>Journal of Environmental Health Science & Engineering</i> , 2021 , 19, 389-400	2.9	5
25	A novel SPR based Fe@Ag core-shell nanosphere entrapped on starch matrix an optical probe for sensing of mercury(II) ion: A nanomolar detection, wide pH range and real water sample application. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 263, 120204	4.4	5
24	A critical review on the development of metal-organic frameworks for boosting photocatalysis in the fields of energy and environment. <i>Journal of Cleaner Production</i> , 2022 , 333, 130164	10.3	4
23	Self-assembling of 3D layered flower architecture of BiOI modified MgCrO nanosphere for wider spectrum visible-light photocatalytic degradation of rhodamine B and malachite green: Mechanism, pathway, reactive sites and toxicity prediction.. <i>Journal of Environmental Management</i> , 2022 , 308, 114614	7.9	4
22	Construction of S-scheme heterojunction CuFe ₂ O ₄ /MnO ₂ with tuned bandgap for enhanced white light harvesting: Insights of photoluminescence, Raman scattering and photocatalysis. <i>Surfaces and Interfaces</i> , 2021 , 27, 101523	4.1	4
21	Designing Z-scheme AgIO nanorod embedded with BiS nanoflakes for expeditious visible light photodegradation of Congo red and rhodamine B.. <i>Chemosphere</i> , 2022 , 133755	8.4	3
20	Fabrication of Ag-ZnCo ₂ O ₄ framework on chitosan matrix for discriminative dual mode detection of S ²⁻ ions and cysteine, and cyto-toxicological evaluation. <i>Journal of Molecular Liquids</i> , 2022 , 347, 118356	6	3
19	Synthesis and application of CdS nanoparticles-decorated core-shell Ag@Ni nanohybrids for visible-light spectrophotometric assay of sulfide in aqueous sample.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 270, 120793	4.4	3
18	Ag decorated CoO NPs supported on chitosan matrix for colorimetric detection of L-cysteine, antibacterial application and photocatalytic reduction of hexavalent chromium ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 640, 128318	5.1	2
17	Chitosan capped Ag/NiS nanocomposites: A novel colorimetric probe for detection of L-cysteine at nanomolar level and its anti-microbial activity. <i>International Journal of Biological Macromolecules</i> , 2021 , 193, 2054-2054	7.9	2
16	The toxicity analysis of PVP, PVA and PEG surface functionalized ZnO nanoparticles on embryonic as well as adult Danio rerio. <i>Environmental Monitoring and Assessment</i> , 2021 , 193, 824	3.1	2
15	Recent development in MoS ₂ -based nano-photocatalyst for the degradation of pharmaceutical active compounds. <i>Journal of Cleaner Production</i> , 2022 , 131506	10.3	2
14	Synthesis of novel p-n heterojunction by the decoration of CuFe ₂ O ₄ on ZnO nanorod: Characterization, enhanced visible light driven photocatalytic activity and intrinsic mechanism. <i>Surfaces and Interfaces</i> , 2022 , 29, 101726	4.1	1
13	Fabrication of MnFe ₂ O ₄ spheres modified CeO ₂ nano-flakes for sustainable photodegradation of MB dye and antimicrobial activity: A brief computational investigation on reactive sites and degradation pathway. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 128566	5.1	1

12	Ag decorated CrS NPs embedded on PVP matrix: A colorimetric probe for selective and rapid detection of sulphide ions from environmental samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 264, 120253	4.4	1
11	Recent advances on gadolinium-based nano-photocatalysts for environmental remediation and clean energy production: Properties, fabrication, defect engineering and toxicity. <i>Journal of Cleaner Production</i> , 2022 , 345, 131139	10.3	1
10	Designing novel MgFeO coupled VO nanorod for synergetic photodegradation of tetracycline with enhanced visible-light energy harvesting: Photoluminescence, kinetics, intrinsic mechanism and bactericidal effect.. <i>Chemosphere</i> , 2022 , 134012	8.4	1
9	Novel ZnFe ₂ O ₄ decorated on ZnO nanorod: Synergistic photocatalytic degradation of tetracycline, kinetics, degradation pathway and antifungal activity. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 107673	6.8	0
8	Nano Ag ₀ decorated-silica matrix for the remediation of environmental pollutants: Visible-light driven Cr(VI) photoreduction, photodegradation of organic dye, nanomolar Hg ²⁺ detection, and antimicrobial applications. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 134, 104315	5.3	0
7	Continuous photocatalysis via Z-scheme based nanocatalyst system for environmental remediation of pharmaceutically active compound: Modification, reaction site, defect engineering and challenges on the nanocatalyst. <i>Journal of Molecular Liquids</i> , 2022 , 353, 118745	6	0
6	Photodegradation of 5-fluorouracil, carvedilol, para-chlorophenol and methimazole with 3D MnWO nanoflower modified AgWO nanorods: A non-genotoxic nanomaterial for water treatment.. <i>Chemosphere</i> , 2022 , 134130	8.4	0
5	A prominent dual heterojunction framed CuWO/BiWO/MnS ternary NCs for para-chlorophenol degradation, Cr(VI) reduction & toxicity studies.. <i>Chemosphere</i> , 2022 , 302, 134802	8.4	0
4	Sunlit expeditious visible light-mediated photo-fenton degradation of ciprofloxacin by exfoliation of NiCoO and ZnFeO over g-CN matrix: A brief insight on degradation mechanism, degraded product toxicity, and genotoxic evaluation in <i>Allium cepa</i> .. <i>Chemosphere</i> , 2022 , 134963	8.4	0
3	Retraction notice to "Influence of humic acid on the stability and bacterial toxicity of zinc oxide nanoparticles in water" [J. Photochem. Photobiol. B Biol., 153 (2015) 289-295]. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 166, 342	6.7	
2	Retraction notice to "Synthesis and characterization of silver sulfide nanoparticles for photocatalytic and antimicrobial applications" [J. Photochem. Photobiol. B Biol., 141 (2014) 235-240]. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 166, 341	6.7	
1	Plasma-assisted in-situ preparation of L-cystine functionalized silver nanoparticle: An intelligent multicolor nano-sensing of cadmium and paracetamol from environmental sample. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 121330	4.4	