

Rai S Kookana

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2622956/publications.pdf>

Version: 2024-02-01

239
papers

15,490
citations

17429

63
h-index

20343

116
g-index

245
all docs

245
docs citations

245
times ranked

14091
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental fate of alkylphenols and alkylphenol ethoxylates—a review. <i>Environment International</i> , 2002, 28, 215-226.	4.8	946
2	A critical evaluation of nanopesticides and nanofertilizers against their conventional analogues. <i>Nature Nanotechnology</i> , 2018, 13, 677-684.	15.6	685
3	Occurrence and fate of hormone steroids in the environment. <i>Environment International</i> , 2002, 28, 545-551.	4.8	589
4	Ionic-strength and pH effects on the sorption of cadmium and the surface charge of soils. <i>European Journal of Soil Science</i> , 1994, 45, 419-429.	1.8	474
5	Characteristics of biochar and its application in remediation of contaminated soil. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 653-659.	1.1	467
6	Biochar Application to Soil. <i>Advances in Agronomy</i> , 2011, , 103-143.	2.4	450
7	Reduced plant uptake of pesticides with biochar additions to soil. <i>Chemosphere</i> , 2009, 76, 665-671.	4.2	332
8	Biological degradation of triclocarban and triclosan in a soil under aerobic and anaerobic conditions and comparison with environmental fate modelling. <i>Environmental Pollution</i> , 2007, 150, 300-305.	3.7	312
9	Nanopesticides: Guiding Principles for Regulatory Evaluation of Environmental Risks. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 4227-4240.	2.4	308
10	Triclosan in wastewaters and biosolids from Australian wastewater treatment plants. <i>Environment International</i> , 2007, 33, 199-205.	4.8	288
11	Sorption and degradation of selected five endocrine disrupting chemicals in aquifer material. <i>Water Research</i> , 2003, 37, 3785-3791.	5.3	284
12	Fate and Uptake of Pharmaceuticals in Soil—Plant Systems. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 816-825.	2.4	263
13	Cadmium Sorption and Transport in Variable Charge Soils: A Review. <i>Journal of Environmental Quality</i> , 1997, 26, 602-617.	1.0	253
14	The Nature of Soil Organic Matter Affects Sorption of Pesticides. 1. Relationships with Carbon Chemistry as Determined by ¹³ C CPMAS NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2001, 35, 878-884.	4.6	244
15	The role of biochar in modifying the environmental fate, bioavailability, and efficacy of pesticides in soils: a review. <i>Soil Research</i> , 2010, 48, 627.	0.6	237
16	Sorption and Desorption Behaviors of Diuron in Soils Amended with Charcoal. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 8545-8550.	2.4	221
17	A critical analysis of published data to discern the role of soil and sediment properties in determining sorption of per and polyfluoroalkyl substances (PFASs). <i>Science of the Total Environment</i> , 2018, 628-629, 110-120.	3.9	207
18	Occurrence and removal of benzotriazoles and ultraviolet filters in a municipal wastewater treatment plant. <i>Environmental Pollution</i> , 2012, 165, 225-232.	3.7	204

#	ARTICLE	IF	CITATIONS
19	Degradation of Five Selected Endocrine-Disrupting Chemicals in Seawater and Marine Sediment. <i>Environmental Science & Technology</i> , 2003, 37, 1256-1260.	4.6	202
20	Marked changes in herbicide sorptionâ€“desorption upon ageing of biochars in soil. <i>Journal of Hazardous Materials</i> , 2012, 231-232, 70-78.	6.5	200
21	SORPTION AND DEGRADATION OF ESTROGEN-LIKE-ENDOCRINE DISRUPTING CHEMICALS IN SOIL. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 2640.	2.2	191
22	Effect of Wastewater Treatment Plant Effluent on Microbial Function and Community Structure in the Sediment of a Freshwater Stream with Variable Seasonal Flow. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2659-2668.	1.4	190
23	Microplastics in municipal mixed-waste organic outputs induce minimal short to long-term toxicity in key terrestrial biota. <i>Environmental Pollution</i> , 2019, 252, 522-531.	3.7	175
24	Influences of Chemical Properties, Soil Properties, and Solution pH on Soilâ€“Water Partitioning Coefficients of Per- and Polyfluoroalkyl Substances (PFASs). <i>Environmental Science & Technology</i> , 2020, 54, 15883-15892.	4.6	171
25	Pesticide fate and behaviour in Australian soils in relation to contamination and management of soil and water: a review. <i>Soil Research</i> , 1998, 36, 715.	0.6	150
26	Biodegradation of three selected benzotriazoles under aerobic and anaerobic conditions. <i>Water Research</i> , 2011, 45, 5005-5014.	5.3	141
27	Occurrence and removal of pharmaceutically active compounds in sewage treatment plants with different technologies. <i>Journal of Environmental Monitoring</i> , 2009, 11, 1498.	2.1	137
28	Simultaneous determination of benzotriazoles and ultraviolet filters in ground water, effluent and biosolid samples using gas chromatographyâ€“tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 5328-5335.	1.8	131
29	Determination of the insecticide imidacloprid in water and soil using high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1997, 787, 271-275.	1.8	129
30	Enhanced and irreversible sorption of pesticide pyrimethanil by soil amended with biochars. <i>Journal of Environmental Sciences</i> , 2010, 22, 615-620.	3.2	129
31	Emerging contaminants in a river receiving untreated wastewater from an Indian urban centre. <i>Science of the Total Environment</i> , 2019, 647, 1256-1265.	3.9	124
32	Occurrence and implications of estrogens and xenoestrogens in sewage effluents and receiving waters from South East Queensland. <i>Science of the Total Environment</i> , 2009, 407, 5147-5155.	3.9	123
33	Potential ecological footprints of active pharmaceutical ingredients: an examination of risk factors in low-, middle- and high-income countries. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130586.	1.8	123
34	Differential sorption behaviour of aromatic hydrocarbons on charcoals prepared at different temperatures from grass and wood. <i>Chemosphere</i> , 2007, 67, 1033-1042.	4.2	114
35	Fate of estrogens and xenoestrogens in four sewage treatment plants with different technologies. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 87-94.	2.2	112
36	Ecological Risk Assessment of Nano-enabled Pesticides: A Perspective on Problem Formulation. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 6480-6486.	2.4	106

#	ARTICLE	IF	CITATIONS
37	Chemistry of Chromium in Soils with Emphasis on Tannery Waste Sites. <i>Reviews of Environmental Contamination and Toxicology</i> , 2003, 178, 53-91.	0.7	98
38	Poor efficacy of herbicides in biochar-amended soils as affected by their chemistry and mode of action. <i>Chemosphere</i> , 2011, 84, 1572-1577.	4.2	98
39	Impact of Herbicides on Soil Biology and Function. <i>Advances in Agronomy</i> , 2016, , 133-220.	2.4	98
40	TIME-DEPENDENT SORPTION OF PESTICIDES DURING TRANSPORT IN SOILS. <i>Soil Science</i> , 1992, 154, 214-225.	0.9	94
41	Uptake of Pharmaceuticals Influences Plant Development and Affects Nutrient and Hormone Homeostases. <i>Environmental Science & Technology</i> , 2015, 49, 12509-12518.	4.6	92
42	Cadmium adsorption and desorption behaviour on goethite at low equilibrium concentrations: effects of pH and index cations. <i>Chemosphere</i> , 2004, 57, 1325-1333.	4.2	91
43	Sorption of PFOA onto different laboratory materials: Filter membranes and centrifuge tubes. <i>Chemosphere</i> , 2019, 222, 671-678.	4.2	91
44	Persistence and effects of fenamiphos on native algal populations and enzymatic activities in soil. <i>Soil Biology and Biochemistry</i> , 1999, 31, 1549-1553.	4.2	89
45	Pesticide Behavior, Fate, and Effects in the Tropics: An Overview of the Current State of Knowledge. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 3917-3924.	2.4	88
46	Removal of carbamazepine in aqueous solutions through solar photolysis of free available chlorine. <i>Water Research</i> , 2016, 100, 413-420.	5.3	86
47	Physical and chemical properties of biochars co-composted with biowastes and incubated with a chicken litter compost. <i>Chemosphere</i> , 2016, 142, 14-23.	4.2	86
48	Sources, presence and potential effects of contaminants of emerging concern in the marine environments of the Great Barrier Reef and Torres Strait, Australia. <i>Science of the Total Environment</i> , 2020, 719, 135140.	3.9	86
49	Urbanisation and emerging economies: Issues and potential solutions for water and food security. <i>Science of the Total Environment</i> , 2020, 732, 139057.	3.9	82
50	Atrazine and simazine degradation in Pennisetum rhizosphere. <i>Chemosphere</i> , 2004, 56, 257-263.	4.2	80
51	Decay of endocrine-disrupting chemicals in aerobic and anoxic groundwater. <i>Water Research</i> , 2008, 42, 1133-1141.	5.3	80
52	Bioavailability of an Organophosphorus Pesticide, Fenamiphos, Sorbed on an Organo Clay. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 2653-2658.	2.4	77
53	Fate and behaviour of triasulfuron, metsulfuron-methyl, and chlorsulfuron in the Australian soil environment: a review. <i>Australian Journal of Agricultural Research</i> , 1998, 49, 775.	1.5	77
54	Simulation of simazine transport through soil columns using time-dependent sorption data measured under flow conditions. <i>Journal of Contaminant Hydrology</i> , 1993, 14, 93-115.	1.6	76

#	ARTICLE	IF	CITATIONS
55	Oxidation of ciprofloxacin and enrofloxacin by ferrate(VI): Products identification, and toxicity evaluation. <i>Journal of Hazardous Materials</i> , 2016, 320, 296-303.	6.5	75
56	Effect of triclosan on microbial activity in australian soils. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 65-70.	2.2	72
57	Transport and retention of bacteria and viruses in biochar-amended sand. <i>Science of the Total Environment</i> , 2016, 548-549, 100-109.	3.9	72
58	Influence of mineral characteristics on the retention of low molecular weight organic compounds: A batch sorption-desorption and ATR-FTIR study. <i>Journal of Colloid and Interface Science</i> , 2014, 432, 246-257.	5.0	70
59	Clear effects of soil organic matter chemistry, as determined by NMR spectroscopy, on the sorption of diuron. <i>Chemosphere</i> , 2008, 70, 1153-1160.	4.2	68
60	The effect of terrain and management on the spatial variability of soil properties in an apple orchard. <i>Catena</i> , 2012, 93, 38-48.	2.2	68
61	Laboratory and field studies on the degradation of fipronil in a soil. <i>Soil Research</i> , 2002, 40, 1095.	0.6	67
62	Contrasting behaviour of chlorpyrifos and its primary metabolite, TCP (3,5,6-trichloro-2-pyridinol), with depth in soil profiles. <i>Soil Research</i> , 2003, 41, 749.	0.6	67
63	Biodegradation of three selected benzotriazoles in aquifer materials under aerobic and anaerobic conditions. <i>Journal of Contaminant Hydrology</i> , 2013, 151, 131-139.	1.6	66
64	Effect of soil solution composition on cadmium transport through variable charge soils. <i>Geoderma</i> , 1998, 84, 235-248.	2.3	64
65	Rapid multiresidue determination for currently used pesticides in agricultural drainage waters and soils using gas chromatography-mass spectrometry. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2010, 45, 152-161.	0.7	64
66	Triclosan: its occurrence, fate and effects in the Australian environment. <i>Water Science and Technology</i> , 2011, 63, 598-604.	1.2	63
67	Desorption of cadmium from goethite: Effects of pH, temperature and aging. <i>Chemosphere</i> , 2006, 64, 856-865.	4.2	62
68	The impacts of modern-use pesticides on shrimp aquaculture: An assessment for north eastern Australia. <i>Ecotoxicology and Environmental Safety</i> , 2018, 148, 770-780.	2.9	60
69	DEGRADATION RATES OF EIGHT PESTICIDES IN SURFACE AND SUBSURFACE SOILS UNDER LABORATORY AND FIELD CONDITIONS. <i>Soil Science</i> , 1998, 163, 404-411.	0.9	60
70	Increasing ionic strength and valency of cations enhance sorption through hydrophobic interactions of PFAS with soil surfaces. <i>Science of the Total Environment</i> , 2022, 817, 152975.	3.9	60
71	Hydrolysis of triasulfuron, metsulfuron-methyl and chlorsulfuron in alkaline soil and aqueous solutions. <i>Pest Management Science</i> , 2000, 56, 463-471.	1.7	58
72	Biodegradation of the ultraviolet filter benzophenone-3 under different redox conditions. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 289-295.	2.2	58

#	ARTICLE	IF	CITATIONS
73	The Role of Transdisciplinary Approach and Community Participation in Village Scale Groundwater Management: Insights from Gujarat and Rajasthan, India. <i>Water (Switzerland)</i> , 2014, 6, 3386-3408.	1.2	58
74	Pesticide Impact Rating Index – A Pesticide Risk Indicator for Water Quality. <i>Water, Air and Soil Pollution</i> , 2005, 5, 45-65.	0.8	57
75	A field-study of leaching and degradation of nine pesticides in a sandy soil. <i>Soil Research</i> , 1995, 33, 1019.	0.6	55
76	Photostability of the UV filter benzophenone-3 and its effect on the photodegradation of benzotriazole in water. <i>Environmental Chemistry</i> , 2011, 8, 581.	0.7	53
77	Multiresidue determination and predicted risk assessment of contaminants of emerging concern in marine sediments from the vicinities of submarine sewage outfalls. <i>Marine Pollution Bulletin</i> , 2018, 129, 299-307.	2.3	53
78	Field dissipation of 4-nonylphenol, 4-t-octylphenol, triclosan and bisphenol A following land application of biosolids. <i>Chemosphere</i> , 2012, 86, 1050-1058.	4.2	49
79	Opportunities and constraints for biochar technology in Australian agriculture: looking beyond carbon sequestration. <i>Soil Research</i> , 2014, 52, 739.	0.6	49
80	Separating the effects of organic matter–mineral interactions and organic matter chemistry on the sorption of diuron and phenanthrene. <i>Chemosphere</i> , 2008, 72, 886-890.	4.2	48
81	Comprehensive framework for human health risk assessment of nanopesticides. <i>Nature Nanotechnology</i> , 2021, 16, 955-964.	15.6	48
82	Hydrolysis of fenamiphos and its oxidation products by a soil bacterium in pure culture, soil and water. <i>Applied Microbiology and Biotechnology</i> , 2003, 61, 252-256.	1.7	47
83	Sorption of Pesticides in Tropical and Temperate Soils from Australia and the Philippines. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 6420-6425.	2.4	47
84	Sorption, plant uptake and metabolism of benzodiazepines. <i>Science of the Total Environment</i> , 2018, 628-629, 18-25.	3.9	47
85	The effects of organic matter–mineral interactions and organic matter chemistry on diuron sorption across a diverse range of soils. <i>Chemosphere</i> , 2015, 119, 99-104.	4.2	46
86	The role of surface charge and pH changes in tropical soils on sorption behaviour of per- and polyfluoroalkyl substances (PFASs). <i>Science of the Total Environment</i> , 2019, 673, 197-206.	3.9	46
87	Sorption non-equilibrium during cadmium transport through soils. <i>Soil Research</i> , 1994, 32, 635.	0.6	45
88	SORPTION OF FIPRONIL AND ITS METABOLITES ON SOILS FROM SOUTH AUSTRALIA. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2001, 36, 545-558.	0.7	45
89	The molecular composition of soil organic matter as determined by ¹³ C NMR and elemental analyses and correlation with pesticide sorption. <i>European Journal of Soil Science</i> , 2006, 57, 883-893.	1.8	44
90	Selected personal care products and endocrine disruptors in biosolids: An Australia-wide survey. <i>Science of the Total Environment</i> , 2011, 409, 1075-1081.	3.9	43

#	ARTICLE	IF	CITATIONS
91	AGING REDUCES THE BIOAVAILABILITY OF EVEN A WEAKLY SORBED PESTICIDE (CARBARYL) IN SOIL. <i>Environmental Toxicology and Chemistry</i> , 2004, 23, 2084.	2.2	42
92	NMR Characterization of ¹³ C-Benzene Sorbed to Natural and Prepared Charcoals. <i>Environmental Science & Technology</i> , 2006, 40, 1764-1769.	4.6	41
93	Sorption and plant uptake of pharmaceuticals from an artificially contaminated soil amended with biochars. <i>Plant and Soil</i> , 2015, 395, 75-86.	1.8	41
94	Degradation of 4-nonylphenol, 4-t-octylphenol, bisphenol A and triclosan following biosolids addition to soil under laboratory conditions. <i>Chemosphere</i> , 2011, 84, 1556-1562.	4.2	40
95	Faster degradation of herbicidally-active enantiomer of imidazolinones in soils. <i>Chemosphere</i> , 2010, 79, 1040-1045.	4.2	39
96	The distribution of triclosan and methyl-triclosan in marine sediments of Barker Inlet, South Australia. <i>Journal of Environmental Monitoring</i> , 2011, 13, 801.	2.1	39
97	Sorption of Carbofuran and Diuron Pesticides in 43 Tropical Soils of Sri Lanka. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 1784-1791.	2.4	38
98	Estimating the sorption of pharmaceuticals based on their pharmacological distribution. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 2572-2579.	2.2	38
99	Sequestration and potential release of PFAS from spent engineered sorbents. <i>Science of the Total Environment</i> , 2021, 765, 142770.	3.9	38
100	Response and recovery of acetylcholinesterase activity in freshwater shrimp, <i>Paratya australiensis</i> (Decapoda: Atyidae) exposed to selected anti-cholinesterase insecticides. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 1503-1510.	2.9	37
101	Impact of (nano)formulations on the distribution and wash-off of copper pesticides and fertilisers applied on citrus leaves. <i>Environmental Chemistry</i> , 2019, 16, 401.	0.7	37
102	Bioconcentration of triclosan and methyl-triclosan in marine mussels (<i>Mytilus galloprovincialis</i>) under laboratory conditions and in metropolitan waters of Gulf St Vincent, South Australia. <i>Marine Pollution Bulletin</i> , 2013, 74, 66-72.	2.3	36
103	Remobilisation of silver and silver sulphide nanoparticles in soils. <i>Environmental Pollution</i> , 2014, 193, 102-110.	3.7	36
104	Predicting partitioning of radiolabelled ¹⁴ C-PFOA in a range of soils using diffuse reflectance infrared spectroscopy. <i>Science of the Total Environment</i> , 2019, 686, 505-513.	3.9	35
105	Estimating the pollution potential of pesticides to ground water. <i>Soil Research</i> , 1994, 32, 1141.	0.6	33
106	Release behavior of triazine residues in stabilised contaminated soils. <i>Environmental Pollution</i> , 2005, 134, 71-77.	3.7	33
107	Direct Comparison between Visible Near- and Mid-Infrared Spectroscopy for Describing Diuron Sorption in Soils. <i>Environmental Science & Technology</i> , 2009, 43, 4049-4055.	4.6	33
108	Impact of climatic and soil conditions on environmental fate of atrazine used under plantation forestry in Australia. <i>Journal of Environmental Management</i> , 2010, 91, 2649-2656.	3.8	33

#	ARTICLE	IF	CITATIONS
109	Photolysis of benzotriazole and formation of its polymerised photoproducts in aqueous solutions under UV irradiation. <i>Environmental Chemistry</i> , 2011, 8, 174.	0.7	31
110	Sorption behaviour of per- and polyfluoroalkyl substances (PFASs) in tropical soils. <i>Environmental Pollution</i> , 2020, 258, 113726.	3.7	31
111	Abiotic degradation (photodegradation and hydrolysis) of imidazolinone herbicides. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2008, 43, 105-112.	0.7	30
112	Differences in sorption behaviour of carbaryl and phosalone in soils from Australia, Pakistan, and the United Kingdom. <i>Soil Research</i> , 2001, 39, 893.	0.6	29
113	ON-LINE SOLID-PHASE EXTRACTION AND FLUORESCENCE DETECTION OF SELECTED ENDOCRINE DISRUPTING CHEMICALS IN WATER BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2002, 37, 225-234.	0.7	29
114	Determination of sulfonylurea herbicides in soil extracts by solid-phase extraction and capillary zone electrophoresis. <i>Chromatographia</i> , 2000, 52, 142-146.	0.7	28
115	PERSISTENCE AND MOVEMENT OF FIPRONIL TERMITICIDE WITH UNDER-SLAB AND TRENCHING TREATMENTS. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 2045.	2.2	28
116	Sorption behaviour of per- and polyfluoroalkyl substances (PFASs) as affected by the properties of coastal estuarine sediments. <i>Science of the Total Environment</i> , 2020, 720, 137263.	3.9	28
117	Degradation of bifenthrin, chlorpyrifos and imidacloprid in soil and bedding materials at termiticidal application rates. <i>Pest Management Science</i> , 1999, 55, 1222-1228.	0.6	27
118	Dissipation of sulfamethoxazole and trimethoprim antibiotics from manure-amended soils. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2012, 47, 240-249.	0.7	27
119	Behaviour of fullerenes (C60) in the terrestrial environment: Potential release from biosolids-amended soils. <i>Journal of Hazardous Materials</i> , 2013, 262, 496-503.	6.5	27
120	Transformation and degradation of fenamiphos nematicide and its metabolites in soils. <i>Soil Research</i> , 1997, 35, 753.	0.6	27
121	Degradation of bifenthrin, chlorpyrifos and imidacloprid in soil and bedding materials at termiticidal application rates. <i>Pest Management Science</i> , 1999, 55, 1222-1228.	0.6	27
122	SORPTION OF AMETRYN AND IMAZETHAPYR IN TWENTY-FIVE SOILS FROM PAKISTAN AND AUSTRALIA. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2001, 36, 143-160.	0.7	26
123	Persistence and leaching of sulfonylurea herbicides over a 4-year period in the highly alkaline soils of south-eastern Australia. <i>Australian Journal of Experimental Agriculture</i> , 2006, 46, 1069.	1.0	26
124	Sorption of a Hydrophilic Pesticide. <i>Soil Science Society of America Journal</i> , 2006, 70, 1991-1997.	1.2	26
125	Midinfrared Spectroscopy and Chemometrics to Predict Diuron Sorption Coefficients in Soils. <i>Environmental Science & Technology</i> , 2008, 42, 3283-3288.	4.6	26
126	Improved extraction and clean-up of imidazolinone herbicides from soil solutions using different solid-phase sorbents. <i>Journal of Chromatography A</i> , 2009, 1216, 5092-5100.	1.8	25

#	ARTICLE	IF	CITATIONS
127	Biodegradation of Simazine and Diuron Herbicides under Aerobic and Anoxic Conditions Relevant to Managed Aquifer Recharge of Storm Water. <i>Clean - Soil, Air, Water</i> , 2014, 42, 745-752.	0.7	25
128	A METHOD FOR STUDYING NONEQUILIBRIUM SORPTION DURING TRANSPORT OF PESTICIDES IN SOIL. <i>Soil Science</i> , 1992, 154, 344-349.	0.9	24
129	Leaching and degradation of triasulfuron, metsulfuron-methyl, and chlorsulfuron in alkaline soil profiles under field conditions. <i>Soil Research</i> , 2000, 38, 617.	0.6	24
130	Quantitative determination of fullerene (C60) in soils by high performance liquid chromatography and accelerated solvent extraction technique. <i>Environmental Chemistry</i> , 2010, 7, 292.	0.7	24
131	Banded applications are highly effective in minimising herbicide migration from furrow-irrigated sugar cane. <i>Science of the Total Environment</i> , 2014, 466-467, 841-848.	3.9	24
132	Comparing the Leaching Behavior of Per- and Polyfluoroalkyl Substances from Contaminated Soils Using Static and Column Leaching Tests. <i>Environmental Science & Technology</i> , 2022, 56, 368-378.	4.6	24
133	Effects of electrolyte composition on chromium desorption in soils contaminated by tannery waste. <i>Soil Research</i> , 2001, 39, 1077.	0.6	23
134	Degradation of Six Selected Ultraviolet Filters in Aquifer Materials Under Various Redox Conditions. <i>Ground Water Monitoring and Remediation</i> , 2013, 33, 79-88.	0.6	23
135	Photolysis of the antidepressants amisulpride and desipramine in wastewaters: Identification of transformation products formed and their fate. <i>Science of the Total Environment</i> , 2015, 530-531, 434-444.	3.9	23
136	Attenuation of Two Estrogen Compounds in Aquifer Materials Supplemented with Sewage Effluent. <i>Ground Water Monitoring and Remediation</i> , 2004, 24, 102-107.	0.6	22
137	Simultaneous Determination of Imidacloprid, Thiachloprid, and Thiamethoxam in Soil and Water by High-performance Liquid Chromatography with Diode-array Detection. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2004, 39, 737-746.	0.7	22
138	Persistence and leaching of imazethapyr and flumetsulam herbicides over a 4-year period in the highly alkaline soils of south-eastern Australia. <i>Australian Journal of Experimental Agriculture</i> , 2006, 46, 669.	1.0	22
139	Organo-mineral interactions mask the true sorption potential of biochars in soils. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2009, 44, 214-219.	0.7	22
140	An investigation into the long-term binding and uptake of PFOS, PFOA and PFHxS in soil " plant systems. <i>Journal of Hazardous Materials</i> , 2021, 404, 124065.	6.5	22
141	Mobility and persistence of three sulfonylurea herbicides in alkaline cropping soils of south-eastern Australia. <i>Australian Journal of Experimental Agriculture</i> , 1999, 39, 465.	1.0	21
142	Aqueous chlorination of benzodiazepines diazepam and oxazepam: Kinetics, transformation products and reaction pathways. <i>Chemical Engineering Journal</i> , 2018, 354, 1100-1109.	6.6	21
143	Sorption of pesticides used in banana production on soils of Ecuador. <i>Soil Research</i> , 2002, 40, 1085.	0.6	20
144	Prediction of Atrazine Sorption Coefficients in Soils Using Mid-Infrared Spectroscopy and Partial Least-Squares Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 3208-3213.	2.4	20

#	ARTICLE	IF	CITATIONS
145	Localisation of estrogen responsive genes in the liver and testis of Murray rainbowfish <i>Melanotaenia fluviatilis</i> exposed to 17 β -estradiol. <i>Molecular and Cellular Endocrinology</i> , 2009, 303, 57-66.	1.6	20
146	Land use effects on sorption of pesticides and their metabolites in sandy soils. I. Fenamiphos and two metabolites, fenamiphos sulfoxide and fenamiphos sulfone, and fenarimol and azinphos methyl. <i>Soil Research</i> , 2003, 41, 847.	0.6	19
147	The effect of lipids on the sorption of diuron and phenanthrene in soils. <i>Chemosphere</i> , 2009, 74, 1062-1068.	4.2	19
148	Off-site transport of pesticides in dissolved and particulate forms from two land uses in the Mt. Lofty Ranges, South Australia. <i>Agricultural Water Management</i> , 2012, 106, 78-85.	2.4	19
149	Environmental issues associated with coal seam gas recovery: managing the fracking boom. <i>Environmental Chemistry</i> , 2012, 9, 425.	0.7	19
150	The use of multiple tracers for tracking wastewater discharges in freshwater systems. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 9321-9332.	1.3	19
151	Fullerol as a Potential Pathway for Mineralization of Fullerene Nanoparticles in Biosolid-Amended Soils. <i>Environmental Science and Technology Letters</i> , 2016, 3, 7-12.	3.9	19
152	Effect of organic cosolvent on adsorption and desorption of linuron and simazine in soil. <i>Soil Research</i> , 1990, 28, 717.	0.6	18
153	The effect of landuse on soil organic carbon chemistry and sorption of pesticides and metabolites. <i>Chemosphere</i> , 2005, 60, 531-541.	4.2	18
154	Groundwater scarcity impact on inclusiveness and women empowerment: Insights from school absenteeism of female students in two watersheds in India. <i>International Journal of Inclusive Education</i> , 2016, 20, 1155-1171.	1.5	18
155	Off-site transport of pesticides from two horticultural land uses in the Mt. Lofty Ranges, South Australia. <i>Agricultural Water Management</i> , 2012, 106, 60-69.	2.4	17
156	The off-site transport of pesticide loads from two land uses in relation to hydrological events in the Mt. Lofty Ranges, South Australia. <i>Agricultural Water Management</i> , 2012, 106, 70-77.	2.4	17
157	Organomineral Interactions and Herbicide Sorption in Brazilian Tropical and Subtropical Oxisols under No-Tillage. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 3925-3934.	2.4	17
158	Chronic effects and thresholds for estuarine and marine benthic organism exposure to perfluorooctane sulfonic acid (PFOS)-contaminated sediments: Influence of organic carbon and exposure routes. <i>Science of the Total Environment</i> , 2021, 776, 146008.	3.9	17
159	Retention and release of diquat and paraquat herbicides in soils. <i>Soil Research</i> , 1993, 31, 97.	0.6	16
160	Can aquatic distribution of human pharmaceuticals be related to pharmacological data?. <i>Chemosphere</i> , 2006, 65, 2253-2259.	4.2	16
161	Bioactivity of POPs and their effects in mosquitofish in Sydney Olympic Park, Australia. <i>Science of the Total Environment</i> , 2009, 407, 3721-3730.	3.9	16
162	Crop damage caused by residual acetolactate synthase herbicides in the soils of south-eastern Australia. <i>Australian Journal of Experimental Agriculture</i> , 2006, 46, 1323.	1.0	16

#	ARTICLE	IF	CITATIONS
163	Land use effects on sorption of pesticides and their metabolites in sandy soils. II. Atrazine and two metabolites, deethylatrazine and deisopropylatrazine, and prometryne. <i>Soil Research</i> , 2003, 41, 861.	0.6	15
164	Mineralisation and release of ¹⁴ C-graphene oxide (GO) in soils. <i>Chemosphere</i> , 2020, 238, 124558.	4.2	15
165	Emerging investigator series: nanotechnology to develop novel agrochemicals: critical issues to consider in the global agricultural context. <i>Environmental Science: Nano</i> , 2020, 7, 1867-1873.	2.2	15
166	Minimising off-site movement of contaminants in furrow irrigation using polyacrylamide (PAM). I. Pesticides. <i>Soil Research</i> , 2006, 44, 551.	0.6	14
167	Isotopic exchangeability as a measure of the available fraction of the human pharmaceutical carbamazepine in river sediment. <i>Science of the Total Environment</i> , 2010, 408, 3689-3695.	3.9	14
168	Using the power of C-13 NMR to interpret infrared spectra of soil organic matter: A two-dimensional correlation spectroscopy approach. <i>Vibrational Spectroscopy</i> , 2013, 66, 76-82.	1.2	14
169	Minimising off-site movement of contaminants in furrow irrigation using polyacrylamide (PAM). II. Phosphorus, nitrogen, carbon, and sediment. <i>Soil Research</i> , 2006, 44, 561.	0.6	14
170	Simultaneous analysis of triasulfuron, metsulfuron-methyl and chlorsulfuron in water and alkaline soils by high-performance liquid chromatography. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 1999, 34, 363-380.	0.7	13
171	Pesticide fate in farming systems: Research and monitoring. <i>Communications in Soil Science and Plant Analysis</i> , 2000, 31, 1641-1659.	0.6	13
172	Comparison of degradation between indigenous and spiked bisphenol A and triclosan in a biosolids amended soil. <i>Science of the Total Environment</i> , 2013, 447, 56-63.	3.9	13
173	Spatial Distribution of Perfluoroalkyl Substances in Surface Sediments of Five Major Rivers in China. <i>Archives of Environmental Contamination and Toxicology</i> , 2015, 68, 566-576.	2.1	13
174	Effect of triclosan and triclocarban biocides on biodegradation of estrogens in soils. <i>Chemosphere</i> , 2009, 77, 1381-1386.	4.2	12
175	Sorption of nano-C60 clusters in soil: hydrophilic or hydrophobic interactions?. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1190.	2.1	12
176	Persistence of estrogenic activity in soils following land application of biosolids. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 26-28.	2.2	12
177	Comparative environmental impact assessment of herbicides used on genetically modified and non-genetically modified herbicide-tolerant canola crops using two risk indicators. <i>Science of the Total Environment</i> , 2016, 557-558, 754-763.	3.9	12
178	Assessment of Mobilization Potential of Per- and Polyfluoroalkyl Substances for Soil Remediation. <i>Environmental Science & Technology</i> , 2022, 56, 10030-10041.	4.6	12
179	Measuring Sorption of Hydrophilic Organic Compounds in Soils by an Unsaturated Transient Flow Method. <i>Journal of Environmental Quality</i> , 2005, 34, 1045-1054.	1.0	11
180	Sorption of pesticides by a mineral sand mining by-product, neutralised used acid (NUA). <i>Science of the Total Environment</i> , 2013, 442, 255-262.	3.9	11

#	ARTICLE	IF	CITATIONS
181	On-farm management practices to minimise off-site movement of pesticides from furrow irrigation. <i>Pest Management Science</i> , 2006, 62, 899-911.	1.7	10
182	Distribution of inorganic and organic contaminants in sediments from Sydney Olympic Park and the surrounding Sydney metropolitan area. <i>Journal of Environmental Monitoring</i> , 2009, 11, 1687.	2.1	10
183	Integrated assessment of wastewater treatment plant effluent estrogenicity in the Upper Murray River, Australia, using the native Murray rainbowfish (<i>Melanotaenia fluviatilis</i>). <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 1078-1087.	2.2	10
184	Microbial degradation of strychnine rodenticide in South Australian agricultural soils: laboratory studies. <i>Soil Biology and Biochemistry</i> , 1998, 30, 129-134.	4.2	9
185	Integration of the Pesticide Impact Rating Index with a Geographic Information System for the Assessment of Pesticide Impact on Water Quality. <i>Water, Air and Soil Pollution</i> , 2005, 5, 67-88.	0.8	9
186	Spatial distribution of diuron sorption affinity as affected by soil, terrain and management practices in an intensively managed apple orchard. <i>Journal of Hazardous Materials</i> , 2012, 217-218, 398-405.	6.5	9
187	Removal of chemicals of concern by high rate nitrifying trickling filters. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 3070-3078.	1.6	9
188	Fate of radiolabeled C60 fullerenes in aged soils. <i>Environmental Pollution</i> , 2017, 221, 293-300.	3.7	9
189	Optimizing the riparian zone width near a river for controlling lateral migration of irrigation water and solutes. <i>Journal of Hydrology</i> , 2019, 570, 637-646.	2.3	9
190	Sorption-Desorption of Fenamiphos in Surfactant-Modified Clays. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2004, 72, 276-282.	1.3	8
191	Contamination and screening level toxicity of sediments from remediated and unremediated wetlands near Sydney, Australia. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 2052-2060.	2.2	8
192	Fate of indicator endocrine disrupting chemicals in sewage during treatment and polishing for non-potable reuse. <i>Water Science and Technology</i> , 2010, 62, 1416-1423.	1.2	8
193	Nutrient and sediment concentrations in the Pagsanjan Lumban catchment of Laguna de Bay, Philippines. <i>Agricultural Water Management</i> , 2012, 106, 17-26.	2.4	8
194	Role of oxygen-containing functional groups in forest fire-generated and pyrolytic chars for immobilization of copper and nickel. <i>Environmental Pollution</i> , 2017, 220, 946-954.	3.7	8
195	Organic waste from sugar mills as a potential soil ameliorant to minimise herbicide runoff to the Great Barrier Reef. <i>Science of the Total Environment</i> , 2020, 713, 136640.	3.9	8
196	Laboratory batch representation of PFAS leaching from aged field soils: Intercomparison across new and standard approaches. <i>Science of the Total Environment</i> , 2022, 838, 156562.	3.9	8
197	Application of VARLEACH and LEACHM models to experimental data on leaching of a non-reactive tracer and three sulfonylurea herbicides. <i>Soil Research</i> , 2001, 39, 1041.	0.6	7
198	A study of atrazine transport through a soil profile on the Gnangara Mound, Western Australia, using LEACHP and Monte Carlo techniques. <i>Soil Research</i> , 2002, 40, 455.	0.6	7

#	ARTICLE	IF	CITATIONS
199	Pesticide Risk Indicators: Their Role in Minimizing Off-Site Impacts of Pesticides on Water Quality. ACS Symposium Series, 2007, , 37-52.	0.5	7
200	Pharmaceuticals in the environment: An introduction to the <i>ET&C</i> special issue. Environmental Toxicology and Chemistry, 2016, 35, 763-766.	2.2	7
201	Impact of exogenous organic carbon on the removal of chemicals of concern in the high rate nitrifying trickling filters. Journal of Environmental Management, 2016, 174, 7-13.	3.8	7
202	Field evaluation of two risk indicators for predicting likelihood of pesticide transport to surface water from two orchards. Science of the Total Environment, 2016, 571, 819-825.	3.9	7
203	Measuring nutrient and pesticide movement in soils: benefits for catchment management. Australian Journal of Experimental Agriculture, 1998, 38, 725.	1.0	6
204	Ecological Risk Assessment for Terrestrial Ecosystems: The Summary of Discussions and Recommendations from the Adelaide Workshop (April 2004). Human and Ecological Risk Assessment (HERA), 2006, 12, 130-138.	1.7	6
205	The effect of solvent-conditioning on soil organic matter sorption affinity for diuron and phenanthrene. Chemosphere, 2009, 76, 1062-1066.	4.2	6
206	Sorption—desorption of indaziflam and its three metabolites in sandy soils. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2014, 49, 836-843.	0.7	6
207	Sorption of Pesticides and its Dependence on Soil Properties: Chemometrics Approach for Estimating Sorption. ACS Symposium Series, 2014, , 221-240.	0.5	6
208	Assessment of efficacy of biocides in different soil types for use in sorption studies of low molecular weight organic compounds. Soil Research, 2018, 56, 451.	0.6	6
209	Sorption and desorption behaviour of strychnine rodenticide in soils. Soil Research, 1997, 35, 491.	0.6	6
210	Sorption of Isoxaflutole Diketonitrile Degradate (DKN) and Dicamba in Unsaturated Soil. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2006, 41, 1071-1083.	0.7	5
211	Effects of thiobencarb in combinations with molinate and chlorpyrifos on selected soil microbial processes. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2009, 44, 226-234.	0.7	5
212	Photodegradation of three benzotriazoles induced by four Fell—carboxylate complexes in water under ultraviolet irradiation. Environmental Chemistry, 2013, 10, 135.	0.7	5
213	The effect of irradiance and temperature on the role of photolysis in the removal of organic micropollutants under Antarctic conditions. Environmental Chemistry, 2013, 10, 417.	0.7	5
214	Organic carbon and salinity affect desorption of PFAS from estuarine sediments. Journal of Soils and Sediments, 2022, 22, 1302-1314.	1.5	5
215	Method for extraction and analysis of per- and poly-fluoroalkyl substances in contaminated asphalt. Analytical Methods, 2022, 14, 1678-1689.	1.3	5
216	Degradation of strychnine by pure bacterial cultures isolated from South Australian agricultural soils. Soil Biology and Biochemistry, 1998, 30, 1623-1626.	4.2	4

#	ARTICLE	IF	CITATIONS
217	Determination of attenuation rates of recycled water disinfection by-products in a natural reservoir system using a laboratory-based approach. <i>Water and Environment Journal</i> , 2014, 28, 358-364.	1.0	4
218	Coupled Sorption and Degradation Kinetics and Non-First Order Behavior. <i>ACS Symposium Series</i> , 2014, , 5-37.	0.5	4
219	Application of a simple-model to assess the ground-water contamination potential of pesticides. <i>Soil Research</i> , 1995, 33, 1031.	0.6	4
220	Transport and fate of organic contaminants in the subsurface. , 1996, , 95-124.		3
221	Degradation of 14C ring labeled pesticides in selected soils of Sri Lanka. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2007, 272, 477-481.	0.7	3
222	Pharmaceuticals and personal care products in the environment: Cultural and spiritual perspectives. <i>Integrated Environmental Assessment and Management</i> , 2013, 9, 164-166.	1.6	3
223	Contrasting effects of two antimicrobial agents (triclosan and triclocarban) on biomineralisation of an organophosphate pesticide in soils. <i>Chemosphere</i> , 2014, 107, 360-365.	4.2	3
224	Predicting bioaccessibility of contaminants of emerging concern in marine sediments using chemical methods. <i>Journal of Soils and Sediments</i> , 2018, 18, 1720-1728.	1.5	3
225	Environmental Risk Indicators. , 2018, , 197-206.		3
226	Fate and Behavior of Environmental Contaminants Arising From Health-Care Provision. , 2018, , 21-40.		3
227	Sorption, degradation and microbial toxicity of chemicals associated with hydraulic fracturing fluid and produced water in soils. <i>Environmental Pollution</i> , 2022, 309, 119754.	3.7	3
228	Geographical Extrapolation of Pesticide Environmental Fate Data: Challenges, Risks, and Opportunities. <i>ACS Symposium Series</i> , 2007, , 100-119.	0.5	2
229	Spatial Variability of Pesticide Sorption: Measurements and Integration to Pesticide Fate Models. <i>ACS Symposium Series</i> , 2014, , 255-274.	0.5	2
230	Regional Considerations for Targeted Use of Biochar in Agriculture and Remediation in Australia. <i>SSSA Special Publication Series</i> , 0, , 445-474.	0.2	2
231	Solid Phase Microextraction (SPME) Fibers: in situ Measurements of Endocrine Disrupting Chemicals in Seawater. <i>Journal of the Brazilian Chemical Society</i> , 2017, , .	0.6	2
232	Generic Guidelines on Integrated Analytical Approaches to Assess Indicators of Pesticide Management Practices at a Catchment Scale. , 2018, , 7-27.		2
233	Fate of copper in soil: effect of agrochemical (nano)formulations and soil properties. <i>Environmental Science: Nano</i> , 0, , .	2.2	2
234	Chapter 7 Temperature and Aging Effects on the Surface Speciation of Cd(II) at the Goethite-Water Interface. <i>Developments in Earth and Environmental Sciences</i> , 2007, , 187-204.	0.1	1

#	ARTICLE	IF	CITATIONS
235	Pollutants Persistent organic. , 2022, , .		1
236	Introduction to the Adelaide Workshop. Human and Ecological Risk Assessment (HERA), 2006, 12, 28-30.	1.7	0
237	Environmental Contaminants and Health Care: An Introduction. , 2018, , 1-5.		0
238	Innovative Chemistry for Environmental Enhancement. Chemistry International, 2020, 42, 41-44.	0.3	0
239	Modelling environmental impacts of agriculture, focusing on oil palm. Burleigh Dodds Series in Agricultural Science, 2018, , 265-314.	0.1	0