Rai S Kookana

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

229 papers	12,270 citations	56 h-index	104 g-index
243 ext. papers	13,648 ext. citations	6 avg, IF	6.71 L-index

#	Paper	IF	Citations
229	Increasing ionic strength and valency of cations enhance sorption through hydrophobic interactions of PFAS with soil surfaces.. *Science of the Total Environment*, **2022**, 817, 152975	10.2	3
228	Organic carbon and salinity affect desorption of PFAS from estuarine sediments. *Journal of Soils and Sediments*, **2022**, 22, 1302-1314	3.4	0
227	An investigation into the long-term binding and uptake of PFOS, PFOA and PFHxS in soil - plant systems. *Journal of Hazardous Materials*, **2021**, 404, 124065	12.8	11
226	Sequestration and potential release of PFAS from spent engineered sorbents. *Science of the Total Environment*, **2021**, 765, 142770	10.2	12
225	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. *Science of the Total Environment*, **2021**, 776, 146008	10.2	5
224	Comprehensive framework for human health risk assessment of nanopesticides. *Nature Nanotechnology*, **2021**, 16, 955-964	28.7	5
223	Comparing the Leaching Behavior of Per- and Polyfluoroalkyl Substances from Contaminated Soils Using Static and Column Leaching Tests.. *Environmental Science & Technology*, **2021**,	10.3	4
222	Urbanisation and emerging economies: Issues and potential solutions for water and food security. *Science of the Total Environment*, **2020**, 732, 139057	10.2	29
221	Sorption behaviour of per- and polyfluoroalkyl substances (PFASs) as affected by the properties of coastal estuarine sediments. *Science of the Total Environment*, **2020**, 720, 137263	10.2	17
220	Organic waste from sugar mills as a potential soil ameliorant to minimise herbicide runoff to the Great Barrier Reef. *Science of the Total Environment*, **2020**, 713, 136640	10.2	3
219	Emerging investigator series: nanotechnology to develop novel agrochemicals: critical issues to consider in the global agricultural context. *Environmental Science: Nano*, **2020**, 7, 1867-1873	7.1	6
218	Sorption behaviour of per- and polyfluoroalkyl substances (PFASs) in tropical soils. *Environmental Pollution*, **2020**, 258, 113726	9.3	11
217	Sources, presence and potential effects of contaminants of emerging concern in the marine environments of the Great Barrier Reef and Torres Strait, Australia. *Science of the Total Environment*, **2020**, 719, 135140	10.2	51
216	Influences of Chemical Properties, Soil Properties, and Solution pH on Soil-Water Partitioning Coefficients of Per- and Polyfluoroalkyl Substances (PFASs). *Environmental Science & Technology*, **2020**, 54, 15883-15892	10.3	56
215	Mineralisation and release of 14C-graphene oxide (GO) in soils. *Chemosphere*, **2020**, 238, 124558	8.4	7
214	Sorption of PFOA onto different laboratory materials: Filter membranes and centrifuge tubes. *Chemosphere*, **2019**, 222, 671-678	8.4	49
213	Optimizing the riparian zone width near a river for controlling lateral migration of irrigation water and solutes. *Journal of Hydrology*, **2019**, 570, 637-646	6	5

212	Predicting partitioning of radiolabelled C-PFOA in a range of soils using diffuse reflectance infrared spectroscopy. *Science of the Total Environment*, **2019**, 686, 505-513	10.2	17
211	Microplastics in municipal mixed-waste organic outputs induce minimal short to long-term toxicity in key terrestrial biota. *Environmental Pollution*, **2019**, 252, 522-531	9.3	91
210	The role of surface charge and pH changes in tropical soils on sorption behaviour of per- and polyfluoroalkyl substances (PFASs). *Science of the Total Environment*, **2019**, 673, 197-206	10.2	25
209	Emerging contaminants in a river receiving untreated wastewater from an Indian urban centre. *Science of the Total Environment*, **2019**, 647, 1256-1265	10.2	75
208	Impact of (nano)formulations on the distribution and wash-off of copper pesticides and fertilisers applied on citrus leaves. *Environmental Chemistry*, **2019**, 16, 401	3.2	19
207	A critical analysis of published data to discern the role of soil and sediment properties in determining sorption of per and polyfluoroalkyl substances (PFASs). *Science of the Total Environment*, **2018**, 628-629, 110-120	10.2	127
206	Sorption, plant uptake and metabolism of benzodiazepines. *Science of the Total Environment*, **2018**, 628-629, 18-25	10.2	32
205	Predicting bioaccessibility of contaminants of emerging concern in marine sediments using chemical methods. *Journal of Soils and Sediments*, **2018**, 18, 1720-1728	3.4	3
204	Multiresidue determination and predicted risk assessment of contaminants of emerging concern in marine sediments from the vicinities of submarine sewage outfalls. *Marine Pollution Bulletin*, **2018**, 129, 299-307	6.7	37
203	A critical evaluation of nanopesticides and nanofertilizers against their conventional analogues. *Nature Nanotechnology*, **2018**, 13, 677-684	28.7	395
202	Aqueous chlorination of benzodiazepines diazepam and oxazepam: Kinetics, transformation products and reaction pathways. *Chemical Engineering Journal*, **2018**, 354, 1100-1109	14.7	13
201	The impacts of modern-use pesticides on shrimp aquaculture: An assessment for north eastern Australia. *Ecotoxicology and Environmental Safety*, **2018**, 148, 770-780	7	41
200	Ecological Risk Assessment of Nano-enabled Pesticides: A Perspective on Problem Formulation. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 6480-6486	5.7	72
199	Environmental Risk Indicators: Their Potential Utility in Pesticide Risk Management and Communication **2018**, 197-206		2
198	Generic Guidelines on Integrated Analytical Approaches to Assess Indicators of Pesticide Management Practices at a Catchment Scale **2018**, 7-27		2
197	Environmental Contaminants and Health Care: An Introduction **2018**, 1-5		
196	Fate and Behavior of Environmental Contaminants Arising From Health-Care Provision **2018**, 21-40		3
195	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	1.8	3

194	Fate of radiolabeled C fullerenes in aged soils. *Environmental Pollution*, **2017**, 221, 293-300	9.3	8
193	Role of oxygen-containing functional groups in forest fire-generated and pyrolytic chars for immobilization of copper and nickel. *Environmental Pollution*, **2017**, 220, 946-954	9.3	6
192	Solid Phase Microextraction (SPME) Fibers: in situ Measurements of Endocrine Disrupting Chemicals in Seawater. *Journal of the Brazilian Chemical Society*, **2017**,	1.5	2
191	Oxidation of ciprofloxacin and enrofloxacin by ferrate(VI): Products identification, and toxicity evaluation. *Journal of Hazardous Materials*, **2016**, 320, 296-303	12.8	50
190	Groundwater scarcity impact on inclusiveness and women empowerment: Insights from school absenteeism of female students in two watersheds in India. *International Journal of Inclusive Education*, **2016**, 20, 1155-1171	1.5	12
189	Physical and chemical properties of biochars co-composted with biowastes and incubated with a chicken litter compost. *Chemosphere*, **2016**, 142, 14-23	8.4	64
188	Fullerol as a Potential Pathway for Mineralization of Fullerene Nanoparticles in Biosolid-Amended Soils. *Environmental Science and Technology Letters*, **2016**, 3, 7-12	11	15
187	Transport and retention of bacteria and viruses in biochar-amended sand. *Science of the Total Environment*, **2016**, 548-549, 100-109	10.2	54
186	Organomineral Interactions and Herbicide Sorption in Brazilian Tropical and Subtropical Oxisols under No-Tillage. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 3925-34	5.7	14
185	Removal of chemicals of concern by high rate nitrifying trickling filters. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 3070-3078	3.5	8
184	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	7.9	5
183	Removal of carbamazepine in aqueous solutions through solar photolysis of free available chlorine. *Water Research*, **2016**, 100, 413-420	12.5	62
182	Impact of Herbicides on Soil Biology and Function. *Advances in Agronomy*, **2016**, 133-220	7.7	66
181	Comparative environmental impact assessment of herbicides used on genetically modified and non-genetically modified herbicide-tolerant canola crops using two risk indicators. *Science of the Total Environment*, **2016**, 557-558, 754-63	10.2	6
180	Pesticide Behavior, Fate, and Effects in the Tropics: An Overview of the Current State of Knowledge. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 3917-24	5.7	61
179	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, 819-25	10.2	4
178	Spatial distribution of perfluoroalkyl substances in surface sediments of five major rivers in China. *Archives of Environmental Contamination and Toxicology*, **2015**, 68, 566-76	3.2	12
177	Integrated assessment of wastewater treatment plant effluent estrogenicity in the Upper Murray River, Australia, using the native Murray rainbowfish (Melanotaenia fluviatilis). *Environmental Toxicology and Chemistry*, **2015**, 34, 1078-87	3.8	10

176	Photolysis of the antidepressants amisulpride and desipramine in wastewaters: Identification of transformation products formed and their fate. *Science of the Total Environment*, **2015**, 530-531, 434-444	10.2	15
175	Sorption and plant uptake of pharmaceuticals from an artificially contaminated soil amended with biochars. *Plant and Soil*, **2015**, 395, 75-86	4.2	32
174	Uptake of Pharmaceuticals Influences Plant Development and Affects Nutrient and Hormone Homeostases. *Environmental Science & Technology*, **2015**, 49, 12509-18	10.3	76
173	The effects of organic matter-mineral interactions and organic matter chemistry on diuron sorption across a diverse range of soils. *Chemosphere*, **2015**, 119, 99-104	8.4	40
172	Regional Considerations for Targeted Use of Biochar in Agriculture and Remediation in Australia. *SSSA Special Publication Series*, **2015**, 445-474	0	1
171	Contrasting effects of two antimicrobial agents (triclosan and triclocarban) on biomineralisation of an organophosphate pesticide in soils. *Chemosphere*, **2014**, 107, 360-365	8.4	2
170	Coupled Sorption and Degradation Kinetics and Non-First Order Behavior. *ACS Symposium Series*, **2014**, 5-37	0.4	2
169	Spatial Variability of Pesticide Sorption: Measurements and Integration to Pesticide Fate Models. *ACS Symposium Series*, **2014**, 255-274	0.4	2
168	Sorption of Pesticides and its Dependence on Soil Properties: Chemometrics Approach for Estimating Sorption. *ACS Symposium Series*, **2014**, 221-240	0.4	3
167	Remobilisation of silver and silver sulphide nanoparticles in soils. *Environmental Pollution*, **2014**, 193, 102-110	9.3	35
166	Influence of mineral characteristics on the retention of low molecular weight organic compounds: a batch sorption-desorption and ATR-FTIR study. *Journal of Colloid and Interface Science*, **2014**, 432, 246-57	9.3	50
165	Fate and uptake of pharmaceuticals in soil-plant systems. *Journal of Agricultural and Food Chemistry* , **2014**, 62, 816-25	5.7	203
164	Nanopesticides: guiding principles for regulatory evaluation of environmental risks. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 4227-40	5.7	210
163	Banded applications are highly effective in minimising herbicide migration from furrow-irrigated sugar cane. *Science of the Total Environment*, **2014**, 466-467, 841-8	10.2	20
162	The Role of Transdisciplinary Approach and Community Participation in Village Scale Groundwater Management: Insights from Gujarat and Rajasthan, India. *Water (Switzerland)*, **2014**, 6, 3386-3408	3	35
161	Opportunities and constraints for biochar technology in Australian agriculture: looking beyond carbon sequestration. *Soil Research*, **2014**, 52, 739	1.8	38
160	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, 836-43	2.2	6
159	Potential ecological footprints of active pharmaceutical ingredients: an examination of risk factors in low-, middle- and high-income countries. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369,	5.8	98

158	Persistence of estrogenic activity in soils following land application of biosolids. *Environmental Toxicology and Chemistry*, **2014**, 33, 26-8	3.8	10
157	Biodegradation of Simazine and Diuron Herbicides under Aerobic and Anoxic Conditions Relevant to Managed Aquifer Recharge of Storm Water. *Clean - Soil, Air, Water*, **2014**, 42, 745-752	1.6	22
156	Photodegradation of three benzotriazoles induced by four Fe^{III} carboxylate complexes in water under ultraviolet irradiation. *Environmental Chemistry*, **2013**, 10, 135	3.2	5
155	Characteristics of biochar and its application in remediation of contaminated soil. *Journal of Bioscience and Bioengineering*, **2013**, 116, 653-9	3.3	353
154	Bioconcentration of triclosan and methyl-triclosan in marine mussels (Mytilus galloprovincialis) under laboratory conditions and in metropolitan waters of Gulf St Vincent, South Australia. *Marine Pollution Bulletin*, **2013**, 74, 66-72	6.7	31
153	Comparison of degradation between indigenous and spiked bisphenol A and triclosan in a biosolids amended soil. *Science of the Total Environment*, **2013**, 447, 56-63	10.2	13
152	Pharmaceuticals and personal care products in the environment: cultural and spiritual perspectives. *Integrated Environmental Assessment and Management*, **2013**, 9, 164-6	2.5	3
151	Sorption of pesticides by a mineral sand mining by-product, neutralised used acid (NUA). *Science of the Total Environment*, **2013**, 442, 255-62	10.2	9
150	Behaviour of fullerenes (C60) in the terrestrial environment: potential release from biosolids-amended soils. *Journal of Hazardous Materials*, **2013**, 262, 496-503	12.8	23
149	Biodegradation of three selected benzotriazoles in aquifer materials under aerobic and anaerobic conditions. *Journal of Contaminant Hydrology*, **2013**, 151, 131-9	3.9	52
148	Using the power of C-13 NMR to interpret infrared spectra of soil organic matter: A two-dimensional correlation spectroscopy approach. *Vibrational Spectroscopy*, **2013**, 66, 76-82	2.1	11
147	The use of multiple tracers for tracking wastewater discharges in freshwater systems. *Environmental Monitoring and Assessment*, **2013**, 185, 9321-32	3.1	15
146	Degradation of Six Selected Ultraviolet Filters in Aquifer Materials Under Various Redox Conditions. *Ground Water Monitoring and Remediation*, **2013**, 33, 79-88	1.4	18
145	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	3.2	5
144	Occurrence and removal of benzotriazoles and ultraviolet filters in a municipal wastewater treatment plant. *Environmental Pollution*, **2012**, 165, 225-32	9.3	169
143	Spatial distribution of diuron sorption affinity as affected by soil, terrain and management practices in an intensively managed apple orchard. *Journal of Hazardous Materials*, **2012**, 217-218, 398-405	12.8	5
142	Biodegradation of the ultraviolet filter benzophenone-3 under different redox conditions. *Environmental Toxicology and Chemistry*, **2012**, 31, 289-95	3.8	40
141	Off-site transport of pesticides from two horticultural land uses in the Mt. Lofty Ranges, South Australia. *Agricultural Water Management*, **2012**, 106, 60-69	5.9	15

140	Nutrient and sediment concentrations in the Pagsanjan□umban catchment of Laguna de Bay, Philippines. *Agricultural Water Management*, **2012**, 106, 17-26	5.9	7
139	The off-site transport of pesticide loads from two land uses in relation to hydrological events in the Mt. Lofty Ranges, South Australia. *Agricultural Water Management*, **2012**, 106, 70-77	5.9	17
138	Off-site transport of pesticides in dissolved and particulate forms from two land uses in the Mt. Lofty Ranges, South Australia. *Agricultural Water Management*, **2012**, 106, 78-85	5.9	13
137	Marked changes in herbicide sorption-desorption upon ageing of biochars in soil. *Journal of Hazardous Materials*, **2012**, 231-232, 70-8	12.8	167
136	The effect of terrain and management on the spatial variability of soil properties in an apple orchard. *Catena*, **2012**, 93, 38-48	5.8	54
135	Environmental issues associated with coal seam gas recovery: managing the fracking boom. *Environmental Chemistry*, **2012**, 9, 425	3.2	19
134	Field dissipation of 4-nonylphenol, 4-t-octylphenol, triclosan and bisphenol A following land application of biosolids. *Chemosphere*, **2012**, 86, 1050-8	8.4	43
133	Dissipation of sulfamethoxazole and trimethoprim antibiotics from manure-amended soils. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2012**, 47, 240-9	2.2	17
132	Biodegradation of three selected benzotriazoles under aerobic and anaerobic conditions. *Water Research*, **2011**, 45, 5005-14	12.5	120
131	Biochar Application to Soil. *Advances in Agronomy*, **2011**, 103-143	7.7	352
130	Triclosan: its occurrence, fate and effects in the Australian environment. *Water Science and Technology*, **2011**, 63, 598-604	2.2	58
129	Bioavailability of Hydrophobic Organic Contaminants in Soils and Sediments **2011**, 517-534		1
128	Photolysis of benzotriazole and formation of its polymerised photoproducts in aqueous solutions under UV irradiation. *Environmental Chemistry*, **2011**, 8, 174	3.2	23
127	Selected personal care products and endocrine disruptors in biosolids: an Australia-wide survey. *Science of the Total Environment*, **2011**, 409, 1075-81	10.2	41
126	Poor efficacy of herbicides in biochar-amended soils as affected by their chemistry and mode of action. *Chemosphere*, **2011**, 84, 1572-7	8.4	76
125	Degradation of 4-nonylphenol, 4-t-octylphenol, bisphenol A and triclosan following biosolids addition to soil under laboratory conditions. *Chemosphere*, **2011**, 84, 1556-62	8.4	38
124	Simultaneous determination of benzotriazoles and ultraviolet filters in ground water, effluent and biosolid samples using gas chromatography-tandem mass spectrometry. *Journal of Chromatography A*, **2011**, 1218, 5328-35	4.5	104
123	The distribution of triclosan and methyl-triclosan in marine sediments of Barker Inlet, South Australia. *Journal of Environmental Monitoring*, **2011**, 13, 801-6		34

122	Sorption of nano-C60 clusters in soil: hydrophilic or hydrophobic interactions?. *Journal of Environmental Monitoring*, **2011**, 13, 1190-4		10
121	Photostability of the UV filter benzophenone-3 and its effect on the photodegradation of benzotriazole in water. *Environmental Chemistry*, **2011**, 8, 581	3.2	45
120	Quantitative determination of fullerene (C60) in soils by high performance liquid chromatography and accelerated solvent extraction technique. *Environmental Chemistry*, **2010**, 7, 292	3.2	21
119	Rapid multiresidue determination for currently used pesticides in agricultural drainage waters and soils using gas chromatography-mass spectrometry. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2010**, 45, 152-61	2.2	56
118	Response and recovery of acetylcholinesterase activity in freshwater shrimp, Paratya australiensis (Decapoda: Atyidae) exposed to selected anti-cholinesterase insecticides. *Ecotoxicology and Environmental Safety*, **2010**, 73, 1503-10	7	33
117	Faster degradation of herbicidally-active enantiomer of imidazolinones in soils. *Chemosphere*, **2010**, 79, 1040-5	8.4	36
116	The role of biochar in modifying the environmental fate, bioavailability, and efficacy of pesticides in soils: a review. *Soil Research*, **2010**, 48, 627	1.8	212
115	Fate of indicator endocrine disrupting chemicals in sewage during treatment and polishing for non-potable reuse. *Water Science and Technology*, **2010**, 62, 1416-23	2.2	8
114	Enhanced and irreversible sorption of pesticide pyrimethanil by soil amended with biochars. *Journal of Environmental Sciences*, **2010**, 22, 615-20	6.4	108
113	Isotopic exchangeability as a measure of the available fraction of the human pharmaceutical carbamazepine in river sediment. *Science of the Total Environment*, **2010**, 408, 3689-95	10.2	14
112	Impact of climatic and soil conditions on environmental fate of atrazine used under plantation forestry in Australia. *Journal of Environmental Management*, **2010**, 91, 2649-56	7.9	22
111	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, 226-34	2.2	3
110	Bioactivity of POPs and their effects in mosquitofish in Sydney Olympic Park, Australia. *Science of the Total Environment*, **2009**, 407, 3721-30	10.2	14
109	Occurrence and implications of estrogens and xenoestrogens in sewage effluents and receiving waters from South East Queensland. *Science of the Total Environment*, **2009**, 407, 5147-55	10.2	107
108	Improved extraction and clean-up of imidazolinone herbicides from soil solutions using different solid-phase sorbents. *Journal of Chromatography A*, **2009**, 1216, 5092-100	4.5	21
107	Effect of triclosan on microbial activity in Australian soils. *Environmental Toxicology and Chemistry*, **2009**, 28, 65-70	3.8	65
106	Estimating the sorption of pharmaceuticals based on their pharmacological distribution. *Environmental Toxicology and Chemistry*, **2009**, 28, 2572-9	3.8	33
105	Contamination and screening level toxicity of sediments from remediated and unremediated wetlands near Sydney, Australia. *Environmental Toxicology and Chemistry*, **2009**, 28, 2052-60	3.8	7

104	Direct comparison between visible near- and mid-infrared spectroscopy for describing diuron sorption in soils. *Environmental Science & Technology*, **2009**, 43, 4049-55	10.3	30
103	The effect of lipids on the sorption of diuron and phenanthrene in soils. *Chemosphere*, **2009**, 74, 1062-8	8.4	16
102	Reduced plant uptake of pesticides with biochar additions to soil. *Chemosphere*, **2009**, 76, 665-71	8.4	278
101	The effect of solvent-conditioning on soil organic matter sorption affinity for diuron and phenanthrene. *Chemosphere*, **2009**, 76, 1062-6	8.4	5
100	Effect of triclosan and triclocarban biocides on biodegradation of estrogens in soils. *Chemosphere*, **2009**, 77, 1381-6	8.4	12
99	Localisation of estrogen responsive genes in the liver and testis of Murray rainbowfish Melanotaenia fluviatilis exposed to 17beta-estradiol. *Molecular and Cellular Endocrinology*, **2009**, 303, 57-66	4.4	19
98	Occurrence and removal of pharmaceutically active compounds in sewage treatment plants with different technologies. *Journal of Environmental Monitoring*, **2009**, 11, 1498-505		118
97	Organo-mineral interactions mask the true sorption potential of biochars in soils. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2009**, 44, 214-9	2.2	19
96	Distribution of inorganic and organic contaminants in sediments from Sydney Olympic Park and the surrounding Sydney metropolitan area. *Journal of Environmental Monitoring*, **2009**, 11, 1687-96		10
95	Decay of endocrine-disrupting chemicals in aerobic and anoxic groundwater. *Water Research*, **2008**, 42, 1133-41	12.5	69
94	Clear effects of soil organic matter chemistry, as determined by NMR spectroscopy, on the sorption of diuron. *Chemosphere*, **2008**, 70, 1153-60	8.4	58
93	Separating the effects of organic matter-mineral interactions and organic matter chemistry on the sorption of diuron and phenanthrene. *Chemosphere*, **2008**, 72, 886-90	8.4	42
92	Effect of wastewater treatment plant effluent on microbial function and community structure in the sediment of a freshwater stream with variable seasonal flow. *Applied and Environmental Microbiology*, **2008**, 74, 2659-68	4.8	150
91	Midinfrared spectroscopy and chemometrics to predict diuron sorption coefficients in soils. *Environmental Science & Technology*, **2008**, 42, 3283-8	10.3	24
90	Prediction of atrazine sorption coefficients in soils using mid-infrared spectroscopy and partial least-squares analysis. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 3208-13	5.7	18
89	Abiotic degradation (photodegradation and hydrolysis) of imidazolinone herbicides. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2008**, 43, 105-12	2.2	26
88	Fate of estrogens and xenoestrogens in four sewage treatment plants with different technologies. *Environmental Toxicology and Chemistry*, **2008**, 27, 87-94	3.8	103
87	Degradation of 14C ring labeled pesticides in selected soils of Sri Lanka. *Journal of Radioanalytical and Nuclear Chemistry*, **2007**, 272, 477-481	1.5	1

86	Triclosan in wastewaters and biosolids from Australian wastewater treatment plants. *Environment International*, **2007**, 33, 199-205	12.9	267
85	Biological degradation of triclocarban and triclosan in a soil under aerobic and anaerobic conditions and comparison with environmental fate modelling. *Environmental Pollution*, **2007**, 150, 300-5	9.3	283
84	Differential sorption behaviour of aromatic hydrocarbons on charcoals prepared at different temperatures from grass and wood. *Chemosphere*, **2007**, 67, 1033-42	8.4	99
83	Chapter 7 Temperature and Aging Effects on the Surface Speciation of Cd(II) at the Goethite/Water Interface. *Developments in Earth and Environmental Sciences*, **2007**, 187-204		
82	Pesticide Risk Indicators: Their Role in Minimizing Off-Site Impacts of Pesticides on Water Quality. *ACS Symposium Series*, **2007**, 37-52	0.4	6
81	Geographical Extrapolation of Pesticide Environmental Fate Data: Challenges, Risks, and Opportunities. *ACS Symposium Series*, **2007**, 100-119	0.4	2
80	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, 1071-83	2.2	5
79	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	4.9	4
78	Introduction to the Adelaide Workshop. *Human and Ecological Risk Assessment (HERA)*, **2006**, 12, 28-30	4.9	
77	Sorption of carbofuran and diuron pesticides in 43 tropical soils of Sri Lanka. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 1784-91	5.7	32
76	Persistence and leaching of sulfonylurea herbicides over a 4-year period in the highly alkaline soils of south-eastern Australia. *Australian Journal of Experimental Agriculture*, **2006**, 46, 1069		23
75	NMR characterization of 13C-benzene sorbed to natural and prepared charcoals. *Environmental Science & Technology*, **2006**, 40, 1764-9	10.3	37
74	Sorption and desorption behaviors of diuron in soils amended with charcoal. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 8545-50	5.7	196
73	Desorption of cadmium from goethite: effects of pH, temperature and aging. *Chemosphere*, **2006**, 64, 856-65	8.4	53
72	Can aquatic distribution of human pharmaceuticals be related to pharmacological data?. *Chemosphere*, **2006**, 65, 2253-9	8.4	12
71	Minimising off-site movement of contaminants in furrow irrigation using polyacrylamide (PAM). I. Pesticides. *Soil Research*, **2006**, 44, 551	1.8	13
70	Sorption of a Hydrophilic Pesticide. *Soil Science Society of America Journal*, **2006**, 70, 1991-1997	2.5	21
69	Persistence and leaching of imazethapyr and flumetsulam herbicides over a 4-year period in the highly alkaline soils of south-eastern Australia. *Australian Journal of Experimental Agriculture*, **2006**, 46, 669		18

68	On-farm management practices to minimise off-site movement of pesticides from furrow irrigation. *Pest Management Science*, **2006**, 62, 899-911	4.6	10
67	The molecular composition of soil organic matter as determined by 13C NMR and elemental analyses and correlation with pesticide sorption. *European Journal of Soil Science*, **2006**, 57, 883-893	3.4	39
66	Persistence and movement of fipronil termiticide with under-slab and trenching treatments. *Environmental Toxicology and Chemistry*, **2006**, 25, 2045-50	3.8	22
65	Crop damage caused by residual acetolactate synthase herbicides in the soils of south-eastern Australia. *Australian Journal of Experimental Agriculture*, **2006**, 46, 1323		13
64	Minimising off-site movement of contaminants in furrow irrigation using polyacrylamide (PAM). II. Phosphorus, nitrogen, carbon, and sediment. *Soil Research*, **2006**, 44, 561	1.8	12
63	Sorption of pesticides in tropical and temperate soils from Australia and the Philippines. *Journal of Agricultural and Food Chemistry*, **2005**, 53, 6420-5	5.7	42
62	The effect of landuse on soil organic carbon chemistry and sorption of pesticides and metabolites. *Chemosphere*, **2005**, 60, 531-41	8.4	15
61	Release behavior of triazine residues in stabilised contaminated soils. *Environmental Pollution*, **2005** , 134, 71-7	9.3	29
60	Sorption and degradation of estrogen-like-endocrine disrupting chemicals in soil. *Environmental Toxicology and Chemistry*, **2005**, 24, 2640-5	3.8	171
59	Pesticide Impact Rating Index □A Pesticide Risk Indicator for Water Quality. *Water, Air and Soil Pollution*, **2005**, 5, 45-65		42
58	Integration of the Pesticide Impact Rating Index with a Geographic Information System for the Assessment of Pesticide Impact on Water Quality. *Water, Air and Soil Pollution*, **2005**, 5, 67-88		7
57	Measuring sorption of hydrophilic organic compounds in soils by an unsaturated transient flow method. *Journal of Environmental Quality*, **2005**, 34, 1045-54	3.4	11
56	Attenuation of Two Estrogen Compounds in Aquifer Materials Supplemented with Sewage Effluent. *Ground Water Monitoring and Remediation*, **2004**, 24, 102-107	1.4	17
55	Aging reduces the bioavailability of even a weakly sorbed pesticide (carbaryl) in soil. *Environmental Toxicology and Chemistry*, **2004**, 23, 2084-9	3.8	32
54	Sorption-desorption of fenamiphos in surfactant-modified clays. *Bulletin of Environmental Contamination and Toxicology*, **2004**, 72, 276-82	2.7	6
53	Simultaneous Determination of Imidacloprid, Thiacloprid, and Thiamethoxam in Soil and Water by High-performance Liquid Chromatography with Diode-array Detection. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2004**, 39, 737-746	2.2	17
52	Atrazine and simazine degradation in Pennisetum rhizosphere. *Chemosphere*, **2004**, 56, 257-63	8.4	68
51	Cadmium adsorption and desorption behaviour on goethite at low equilibrium concentrations: effects of pH and index cations. *Chemosphere*, **2004**, 57, 1325-33	8.4	75

50	Contrasting behaviour of chlorpyrifos and its primary metabolite, TCP (3,5,6-trichloro-2-pyridinol), with depth in soil profiles. *Soil Research*, **2003**, 41, 749	1.8	55
49	Land use effects on sorption of pesticides and their metabolites in sandy soils. II. Atrazine and two metabolites, deethylatrazine and deisopropylatrazine, and prometryne. *Soil Research*, **2003**, 41, 861	1.8	14
48	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. *Soil Research*, **2003**, 41, 847	1.8	19
47	Hydrolysis of fenamiphos and its oxidation products by a soil bacterium in pure culture, soil and water. *Applied Microbiology and Biotechnology*, **2003**, 61, 252-6	5.7	35
46	Bioavailability of an organophosphorus pesticide, fenamiphos, sorbed on an organo clay. *Journal of Agricultural and Food Chemistry*, **2003**, 51, 2653-8	5.7	62
45	Chemistry of chromium in soils with emphasis on tannery waste sites. *Reviews of Environmental Contamination and Toxicology*, **2003**, 178, 53-91	3.5	77
44	Sorption and degradation of selected five endocrine disrupting chemicals in aquifer material. *Water Research*, **2003**, 37, 3785-91	12.5	259
43	Degradation of Five Selected Endocrine-Disrupting Chemicals in Seawater and Marine Sediment. *Environmental Science & Technology*, **2003**, 37, 1256-1260	10.3	184
42	Sorption of pesticides used in banana production on soils of Ecuador. *Soil Research*, **2002**, 40, 1085	1.8	18
41	A study of atrazine transport through a soil profile on the Gnangara Mound, Western Australia, using LEACHP and Monte Carlo techniques. *Soil Research*, **2002**, 40, 455	1.8	6
40	Laboratory and field studies on the degradation of fipronil in a soil. *Soil Research*, **2002**, 40, 1095	1.8	58
39	On-line solid-phase extraction and fluorescence detection of selected endocrine disrupting chemicals in water by high-performance liquid chromatography. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2002**, 37, 225-34	2.2	20
38	Environmental fate of alkylphenols and alkylphenol ethoxylates--a review. *Environment International*, **2002**, 28, 215-26	12.9	867
37	Occurrence and fate of hormone steroids in the environment. *Environment International*, **2002**, 28, 545-51	12.9	526
36	Application of VARLEACH and LEACHM models to experimental data on leaching of a non-reactive tracer and three sulfonylurea herbicides. *Soil Research*, **2001**, 39, 1041	1.8	7
35	Differences in sorption behaviour of carbaryl and phosalone in soils from Australia, Pakistan, and the United Kingdom. *Soil Research*, **2001**, 39, 893	1.8	26
34	Sorption of ametryn and imazethapyr in twenty-five soils from Pakistan and Australia. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2001**, 36, 143-60	2.2	16
33	Effects of electrolyte composition on chromium desorption in soils contaminated by tannery waste. *Soil Research*, **2001**, 39, 1077	1.8	20

32	Sorption of fipronil and its metabolites on soils from South Australia. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2001**, 36, 545-58	2.2	37
31	The nature of soil organic matter affects sorption of pesticides. 1. Relationships with carbon chemistry as determined by 13C CPMAS NMR spectroscopy. *Environmental Science & Technology*, **2001**, 35, 878-84	10.3	220
30	Hydrolysis of triasulfuron, metsulfuron-methyl and chlorsulfuron in alkaline soil and aqueous solutions. *Pest Management Science*, **2000**, 56, 463-471	4.6	54
29	Determination of sulfonylurea herbicides in soil extracts by solid-phase extraction and capillary zone electrophoresis. *Chromatographia*, **2000**, 52, 142-146	2.1	27
28	Pesticide fate in farming systems: Research and monitoring. *Communications in Soil Science and Plant Analysis*, **2000**, 31, 1641-1659	1.5	13
27	Leaching and degradation of triasulfuron, metsulfuron-methyl, and chlorsulfuron in alkaline soil profiles under field conditions. *Soil Research*, **2000**, 38, 617	1.8	23
26	Simultaneous analysis of triasulfuron, metsulfuron-methyl and chlorsulfuron in water and alkaline soils by high-performance liquid chromatography. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **1999**, 34, 363-80	2.2	7
25	Degradation of bifenthrin, chlorpyrifos and imidacloprid in soil and bedding materials at termiticidal application rates. *Pest Management Science*, **1999**, 55, 1222-1228		6
24	Persistence and effects of fenamiphos on native algal populations and enzymatic activities in soil. *Soil Biology and Biochemistry*, **1999**, 31, 1549-1553	7.5	79
23	Mobility and persistence of three sulfonylurea herbicides in alkaline cropping soils of south-eastern Australia. *Australian Journal of Experimental Agriculture*, **1999**, 39, 465		20
22	Degradation of bifenthrin, chlorpyrifos and imidacloprid in soil and bedding materials attermiticidal application rates. *Pest Management Science*, **1999**, 55, 1222-1228		27
21	Microbial degradation of strychnine rodenticide in South Australian agricultural soils: laboratory studies. *Soil Biology and Biochemistry*, **1998**, 30, 129-134	7.5	7
20	Degradation of strychnine by pure bacterial cultures isolated from South Australian agricultural soils. *Soil Biology and Biochemistry*, **1998**, 30, 1623-1626	7.5	4
19	Effect of soil solution composition on cadmium transport through variable charge soils. *Geoderma*, **1998**, 84, 235-248	6.7	55
18	Pesticide fate and behaviour in Australian soils in relation to contamination and management of soil and water: a review. *Soil Research*, **1998**, 36, 715	1.8	131
17	Measuring nutrient and pesticide movement in soils: benefits for catchment management. *Australian Journal of Experimental Agriculture*, **1998**, 38, 725		5
16	Fate and behaviour of triasulfuron, metsulfuron-methyl, and chlorsulfuron in the Australian soil environment: a review. *Australian Journal of Agricultural Research*, **1998**, 49, 775		67
15	DEGRADATION RATES OF EIGHT PESTICIDES IN SURFACE AND SUBSURFACE SOILS UNDER LABORATORY AND FIELD CONDITIONS. *Soil Science*, **1998**, 163, 404-411	0.9	59

14	Cadmium Sorption and Transport in Variable Charge Soils: A Review. *Journal of Environmental Quality*, **1997**, 26, 602-617	3.4	207
13	Determination of the insecticide imidacloprid in water and soil using high-performance liquid chromatography. *Journal of Chromatography A*, **1997**, 787, 271-5	4.5	110
12	Sorption and desorption behaviour of strychnine rodenticide in soils. *Soil Research*, **1997**, 35, 491	1.8	6
11	Transformation and degradation of fenamiphos nematicide and its metabolites in soils. *Soil Research*, **1997**, 35, 753	1.8	25
10	Transport and fate of organic contaminants in the subsurface **1996**, 95-124		2
9	A field-study of leaching and degradation of nine pesticides in a sandy soil. *Soil Research*, **1995**, 33, 1019	1.8	43
8	Ionic-strength and pH effects on the sorption of cadmium and the surface charge of soils. *European Journal of Soil Science*, **1994**, 45, 419-429	3.4	424
7	Estimating the pollution potential of pesticides to ground water. *Soil Research*, **1994**, 32, 1141	1.8	30
6	Sorption non-equilibrium during cadmium transport through soils. *Soil Research*, **1994**, 32, 635	1.8	42
5	Retention and release of diquat and paraquat herbicides in soils. *Soil Research*, **1993**, 31, 97	1.8	14
4	Simulation of simazine transport through soil columns using time-dependent sorption data measured under flow conditions. *Journal of Contaminant Hydrology*, **1993**, 14, 93-115	3.9	64
3	TIME-DEPENDENT SORPTION OF PESTICIDES DURING TRANSPORT IN SOILS. *Soil Science*, **1992**, 154, 214-225	0.9	83
2	A METHOD FOR STUDYING NONEQUILIBRIUM SORPTION DURING TRANSPORT OF PESTICIDES IN SOIL. *Soil Science*, **1992**, 154, 344-349	0.9	22
1	Effect of organic cosolvent on adsorption and desorption of linuron and simazine in soil. *Soil Research*, **1990**, 28, 717	1.8	17