

Benny Chefetz

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119
papers

5,891
citations

43
h-index

74
g-index

120
ext. papers

6,753
ext. citations

7.4
avg, IF

6.04
L-index

#	Paper	IF	Citations
119	Pyrene Sorption by Natural Organic Matter. <i>Environmental Science & Technology</i> , 2000 , 34, 2925-2930	10.3	268
118	Irrigation of root vegetables with treated wastewater: evaluating uptake of pharmaceuticals and the associated human health risks. <i>Environmental Science & Technology</i> , 2014 , 48, 9325-33	10.3	267
117	Chemical and Biological Characterization of Organic Matter during Composting of Municipal Solid Waste. <i>Journal of Environmental Quality</i> , 1996 , 25, 776-785	3.4	258
116	Phenanthrene sorption by aliphatic-rich natural organic matter. <i>Environmental Science & Technology</i> , 2002 , 36, 1953-8	10.3	240
115	Sorption and mobility of pharmaceutical compounds in soil irrigated with reclaimed wastewater. <i>Chemosphere</i> , 2008 , 73, 1335-43	8.4	233
114	Insights into the uptake processes of wastewater-borne pharmaceuticals by vegetables. <i>Environmental Science & Technology</i> , 2014 , 48, 5593-600	10.3	220
113	Purification and characterization of laccase from <i>Chaetomium thermophilum</i> and its role in humification. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 3175-9	4.8	202
112	Uptake of carbamazepine by cucumber plants--a case study related to irrigation with reclaimed wastewater. <i>Chemosphere</i> , 2011 , 82, 905-10	8.4	200
111	Relative role of aliphatic and aromatic moieties as sorption domains for organic compounds: a review. <i>Environmental Science & Technology</i> , 2009 , 43, 1680-8	10.3	195
110	Sorption of polar and nonpolar aromatic organic contaminants by plant cuticular materials: role of polarity and accessibility. <i>Environmental Science & Technology</i> , 2005 , 39, 6138-46	10.3	195
109	Biodegradability of pharmaceutical compounds in agricultural soils irrigated with treated wastewater. <i>Environmental Pollution</i> , 2014 , 185, 168-77	9.3	139
108	Characterization of Dissolved Organic Matter Extracted from Composted Municipal Solid Waste. <i>Soil Science Society of America Journal</i> , 1998 , 62, 326	2.5	113
107	Human Exposure to Wastewater-Derived Pharmaceuticals in Fresh Produce: A Randomized Controlled Trial Focusing on Carbamazepine. <i>Environmental Science & Technology</i> , 2016 , 50, 4476-82	10.3	108
106	Adsorption and desorption of phenanthrene on carbon nanotubes in simulated gastrointestinal fluids. <i>Environmental Science & Technology</i> , 2011 , 45, 6018-24	10.3	102
105	Sorption-desorption behavior of triazine and phenylurea herbicides in Kishon river sediments. <i>Water Research</i> , 2004 , 38, 4383-94	12.5	93
104	Transformation of the recalcitrant pharmaceutical compound carbamazepine by <i>Pleurotus ostreatus</i> : role of cytochrome P450 monooxygenase and manganese peroxidase. <i>Environmental Science & Technology</i> , 2011 , 45, 6800-5	10.3	90
103	Characterization of Organic Matter in Soils by Thermochemolysis Using Tetramethylammonium Hydroxide (TMAH). <i>Soil Science Society of America Journal</i> , 2000 , 64, 583-589	2.5	90

102	Sorption of the pharmaceuticals carbamazepine and naproxen to dissolved organic matter: role of structural fractions. <i>Water Research</i> , 2010 , 44, 981-9	12.5	83
101	Structural Components of Humic Acids as Determined by Chemical Modifications and Carbon-13 NMR, Pyrolysis-, and Thermochemolysis-Gas Chromatography/Mass Spectrometry. <i>Soil Science Society of America Journal</i> , 2002 , 66, 1159-1171	2.5	80
100	Adsorptive fractionation of dissolved organic matter (DOM) by mineral soil: Macroscale approach and molecular insight. <i>Organic Geochemistry</i> , 2017 , 103, 113-124	3.1	78
99	Adsorption of carbamazepine by carbon nanotubes: effects of DOM introduction and competition with phenanthrene and bisphenol A. <i>Environmental Pollution</i> , 2013 , 182, 169-76	9.3	74
98	Interactions of organic compounds with wastewater dissolved organic matter: role of hydrophobic fractions. <i>Journal of Environmental Quality</i> , 2005 , 34, 552-62	3.4	74
97	Composted biosolids and treated wastewater as sources of pharmaceuticals and personal care products for plant uptake: A case study with carbamazepine. <i>Environmental Pollution</i> , 2018 , 232, 164-172	9.3	73
96	Fate of carbamazepine, its metabolites, and lamotrigine in soils irrigated with reclaimed wastewater: Sorption, leaching and plant uptake. <i>Chemosphere</i> , 2016 , 160, 22-9	8.4	71
95	Phenanthrene sorption to structurally modified humic acids. <i>Journal of Environmental Quality</i> , 2003 , 32, 1750-8	3.4	69
94	Quantifying PPCP interaction with dissolved organic matter in aqueous solution: combined use of fluorescence quenching and tandem mass spectrometry. <i>Water Research</i> , 2012 , 46, 943-54	12.5	67
93	Structural Characterization of Soil Organic Matter and Humic Acids in Particle-Size Fractions of an Agricultural Soil. <i>Soil Science Society of America Journal</i> , 2002 , 66, 129-141	2.5	67
92	Insight into the role of dissolved organic matter in sorption of sulfapyridine by semiarid soils. <i>Environmental Science & Technology</i> , 2012 , 46, 11870-7	10.3	65
91	Interactions of carbamazepine in soil: effects of dissolved organic matter. <i>Journal of Environmental Quality</i> , 2011 , 40, 942-8	3.4	65
90	Sorption of phenanthrene and atrazine by plant cuticular fractions. <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 2492-8	3.8	64
89	Humic-Acid Transformation during Composting of Municipal Solid Waste. <i>Journal of Environmental Quality</i> , 1998 , 27, 794-800	3.4	62
88	Transformation Pathways of the Recalcitrant Pharmaceutical Compound Carbamazepine by the White-Rot Fungus <i>Pleurotus ostreatus</i> : Effects of Growth Conditions. <i>Environmental Science & Technology</i> , 2015 , 49, 12351-62	10.3	60
87	Sorptive and desorptive fractionation of dissolved organic matter by mineral soil matrices. <i>Journal of Environmental Quality</i> , 2012 , 41, 526-33	3.4	57
86	Structural Characterization of Soil Organic Matter and Humic Acids in Particle-Size Fractions of an Agricultural Soil. <i>Soil Science Society of America Journal</i> , 2002 , 66, 129	2.5	57
85	DOM-Affected Transformation of Contaminants on Mineral Surfaces: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2014 , 44, 223-254	11.1	54

84	Binding of pyrene to hydrophobic fractions of dissolved organic matter: effect of polyvalent metal complexation. <i>Environmental Science & Technology</i> , 2007 , 41, 5389-94	10.3	54
83	Combined effects of biosolids application and irrigation with reclaimed wastewater on transport of pharmaceutical compounds in arable soils. <i>Water Research</i> , 2013 , 47, 3431-43	12.5	52
82	Sorption-desorption behavior of polycyclic aromatic hydrocarbons in upstream and downstream river sediments. <i>Chemosphere</i> , 2005 , 61, 19-29	8.4	52
81	Pulmonary surfactant suppressed phenanthrene adsorption on carbon nanotubes through solubilization and competition as examined by passive dosing technique. <i>Environmental Science & Technology</i> , 2012 , 46, 5369-77	10.3	48
80	Sorption-Desorption Behavior of Atrazine in Soils Irrigated with Reclaimed Wastewater. <i>Soil Science Society of America Journal</i> , 2005 , 69, 1703-1710	2.5	48
79	Interactions of hydrophobic fractions of dissolved organic matter with Fe(3+) - and Cu(2+)-montmorillonite. <i>Environmental Science & Technology</i> , 2008 , 42, 4797-803	10.3	46
78	Adsorption and oxidative transformation of phenolic acids By Fe(III)-montmorillonite. <i>Environmental Science & Technology</i> , 2010 , 44, 4203-9	10.3	45
77	Adsorption and desorption of dissolved organic matter by carbon nanotubes: Effects of solution chemistry. <i>Environmental Pollution</i> , 2016 , 213, 90-98	9.3	40
76	Spectroscopic Characterization of Aliphatic Moieties in Four Plant Cuticles. <i>Communications in Soil Science and Plant Analysis</i> , 2007 , 38, 2461-2478	1.5	37
75	Pharmaceutical pollution of the world's rivers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	37
74	Persistent organic pollutants and sedimentary organic matter properties: a case study in the Kishon River, Israel. <i>Environmental Pollution</i> , 2006 , 141, 265-74	9.3	35
73	Transformation of oxytetracycline by redox-active Fe(III)- and Mn(IV)-containing minerals: Processes and mechanisms. <i>Water Research</i> , 2018 , 145, 136-145	12.5	34
72	Solid-state NMR characterization of pyrene-cuticular matter interactions. <i>Environmental Science & Technology</i> , 2004 , 38, 4369-76	10.3	33
71	Maize (<i>Zea mays</i> L.) root exudates modify the surface chemistry of CuO nanoparticles: Altered aggregation, dissolution and toxicity. <i>Science of the Total Environment</i> , 2019 , 690, 502-510	10.2	32
70	Formation and properties of humic substance originating from composts 1996 , 382-393		32
69	Removal of triazine-based pollutants from water by carbon nanotubes: Impact of dissolved organic matter (DOM) and solution chemistry. <i>Water Research</i> , 2016 , 106, 146-154	12.5	31
68	Transformation and Speciation Analysis of Silver Nanoparticles of Dietary Supplement in Simulated Human Gastrointestinal Tract. <i>Environmental Science & Technology</i> , 2018 , 52, 8792-8800	10.3	30
67	An LC-MS/MS method for the determination of 28 polar environmental contaminants and metabolites in vegetables irrigated with treated municipal wastewater. <i>Analytical Methods</i> , 2017 , 9, 1273-1281 ²⁹		

66	Electrochemistry Combined with LC-HRMS: Elucidating Transformation Products of the Recalcitrant Pharmaceutical Compound Carbamazepine Generated by the White-Rot Fungus <i>Pleurotus ostreatus</i> . <i>Environmental Science & Technology</i> , 2015 , 49, 12342-50	10.3	29
65	Characterization of organic matter in pristine and contaminated coastal marine sediments using solid-state ¹³ C NMR, pyrolytic and thermochemolytic methods: a case study in the San Diego harbor area. <i>Chemosphere</i> , 2001 , 45, 1007-22	8.4	29
64	Adsorption of Soil-Derived Humic Acid by Seven Clay Minerals: A Systematic Study. <i>Clays and Clay Minerals</i> , 2016 , 64, 628-638	2.1	29
63	Emerging investigator series: towards a framework for establishing the impacts of pharmaceuticals in wastewater irrigation systems on agro-ecosystems and human health. <i>Environmental Sciences: Processes and Impacts</i> , 2019 , 21, 605-622	4.3	28
62	Interactions of sodium azide with triazine herbicides: effect on sorption to soils. <i>Chemosphere</i> , 2006 , 65, 352-7	8.4	28
61	Competitive sorption-desorption behavior of triazine herbicides with plant cuticular fractions. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 7761-8	5.7	26
60	A Novel Method For Determining Phytotoxicity In Composts. <i>Compost Science and Utilization</i> , 1998 , 6, 6-13	1.2	26
59	Complexation of trace organic contaminants with fractionated dissolved organic matter: implications for mass spectrometric quantification. <i>Chemosphere</i> , 2013 , 91, 344-50	8.4	25
58	Pharmacokinetics in Plants: Carbamazepine and Its Interactions with Lamotrigine. <i>Environmental Science & Technology</i> , 2018 , 52, 6957-6964	10.3	25
57	Isolation and partial characterization of laccase from a thermophilic composted municipal solid waste. <i>Soil Biology and Biochemistry</i> , 1998 , 30, 1091-1098	7.5	24
56	Insights into the sorption properties of cutin and cutan biopolymers. <i>Environmental Science & Technology</i> , 2008 , 42, 1165-71	10.3	24
55	Comparison of polycyclic aromatic hydrocarbon distributions and sedimentary organic matter characteristics in contaminated, coastal sediments from Pensacola Bay, Florida. <i>Marine Environmental Research</i> , 2005 , 59, 139-63	3.3	24
54	Transformation of Plant Cuticles in Soil. <i>Soil Science Society of America Journal</i> , 2006 , 70, 1101-1109	2.5	24
53	Adsorptive fractionation of dissolved organic matter (DOM) by carbon nanotubes. <i>Environmental Pollution</i> , 2015 , 197, 287-294	9.3	23
52	Dispersant selection for nanomaterials: Insight into dispersing functionalized carbon nanotubes by small polar aromatic organic molecules. <i>Carbon</i> , 2015 , 91, 494-505	10.4	23
51	The role of lipids on sorption characteristics of freshwater- and wastewater-irrigated soils. <i>Journal of Environmental Quality</i> , 2006 , 35, 2154-61	3.4	22
50	Solution-state NMR investigation of the sorptive fractionation of dissolved organic matter by alkaline mineral soils. <i>Environmental Chemistry</i> , 2013 , 10, 333	3.2	21
49	Organic Matter Transformations During the Weathering Process of Spent Mushroom Substrate. <i>Journal of Environmental Quality</i> , 2000 , 29, 592-602	3.4	21

48	Modeling nitrate from land surface to wells perforations under agricultural land: success, failure, and future scenarios in a Mediterranean case study. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 3811-3825	5.5	20
47	Interactions of aromatic acids with montmorillonite: Ca ²⁺ - and Fe ³⁺ -saturated clays versus Fe ³⁺ -Ca ²⁺ -clay system. <i>Geoderma</i> , 2011 , 160, 608-613	6.7	20
46	Sorption-desorption behavior of polybrominated diphenyl ethers in soils. <i>Environmental Pollution</i> , 2011 , 159, 2375-9	9.3	20
45	Dual functionality of an Ag-Fe ₃ O ₄ -carbon nanotube composite material: Catalytic reduction and antibacterial activity. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 4103-4113	6.8	20
44	The pH and concentration dependent interfacial interaction and heteroaggregation between nanoparticulate zero-valent iron and clay mineral particles. <i>Environmental Science: Nano</i> , 2019 , 6, 2129-2140	7.4	19
43	Bacterial inactivation by a carbon nanotube-iron oxide nanocomposite: a mechanistic study using E. coli mutants. <i>Environmental Science: Nano</i> , 2018 , 5, 372-380	7.1	19
42	Composition-Dependent Sorptive Fractionation of Anthropogenic Dissolved Organic Matter by Fe(III)-Montmorillonite. <i>Soil Systems</i> , 2018 , 2, 14	3.5	18
41	Successive sorption-desorption cycles of dissolved organic matter in mineral soil matrices. <i>Geoderma</i> , 2012 , 189-190, 108-115	6.7	17
40	Pesticide load dynamics during stormwater flow events in Mediterranean coastal streams: Alexander stream case study. <i>Science of the Total Environment</i> , 2018 , 625, 168-177	10.2	16
39	Direct photodegradation of lamotrigine (an antiepileptic) in simulated sunlight--pH influenced rates and products. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 848-57	4.3	16
38	Enhancement effect of water associated with natural organic matter (NOM) on organic compound-NOM interactions: a case study with carbamazepine. <i>Chemosphere</i> , 2011 , 82, 1454-60	8.4	16
37	Copper sulfide nanoparticles suppress <i>Gibberella fujikuroi</i> infection in rice (<i>Oryza sativa</i> L.) by multiple mechanisms: contact-mortality, nutritional modulation and phytohormone regulation. <i>Environmental Science: Nano</i> , 2020 , 7, 2632-2643	7.1	16
36	Comments on "Human health risk assessment of pharmaceuticals and personal care products in plant tissue due to biosolids and manure amendments, and wastewater irrigation". <i>Environment International</i> , 2015 , 82, 110-2	12.9	15
35	Sorption of organic compounds to humin from soils irrigated with reclaimed wastewater. <i>Geoderma</i> , 2008 , 145, 98-106	6.7	14
34	Transformation of lamotrigine by white-rot fungus <i>Pleurotus ostreatus</i> . <i>Environmental Pollution</i> , 2019 , 250, 546-553	9.3	12
33	Involuntary human exposure to carbamazepine: A cross-sectional study of correlates across the lifespan and dietary spectrum. <i>Environment International</i> , 2020 , 143, 105951	12.9	12
32	Reconstitution of cutin monomers on smectite surfaces: adsorption and esterification. <i>Geoderma</i> , 2014 , 232-234, 406-413	6.7	11
31	Transformation of Ag ions into Ag nanoparticle-loaded AgCl microcubes in the plant root zone. <i>Environmental Science: Nano</i> , 2019 , 6, 1099-1110	7.1	10

30	Removal of Silver and Lead Ions from Water Wastes Using <i>Azolla filiculoides</i> , an Aquatic Plant, Which Adsorbs and Reduces the Ions into the Corresponding Metallic Nanoparticles Under Microwave Radiation in 5 min. <i>Water, Air, and Soil Pollution</i> , 2011 , 218, 365-370	2.6	10
29	Decomposition and sorption characterization of plant cuticles in soil. <i>Plant and Soil</i> , 2007 , 298, 21-30	4.2	10
28	Environmental exposure to pharmaceuticals: A new technique for trace analysis of carbamazepine and its metabolites in human urine. <i>Environmental Pollution</i> , 2016 , 213, 308-313	9.3	10
27	A proof of concept study demonstrating that environmental levels of carbamazepine impair early stages of chick embryonic development. <i>Environment International</i> , 2019 , 129, 583-594	12.9	9
26	The missing link between carbon nanotubes, dissolved organic matter and organic pollutants. <i>Advances in Colloid and Interface Science</i> , 2019 , 271, 101993	14.3	9
25	Cutin and Cutan Biopolymers: Their Role as Natural Sorbents. <i>Soil Science Society of America Journal</i> , 2010 , 74, 1139-1146	2.5	9
24	Pharmaceuticals in edible crops irrigated with reclaimed wastewater: Evidence from a large survey in Israel. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126184	12.8	9
23	Pharmaceuticals in treated wastewater induce a stress response in tomato plants. <i>Scientific Reports</i> , 2020 , 10, 1856	4.9	8
22	CHARACTERIZATION AND PROPERTIES OF HUMIC SUBSTANCES ORIGINATING FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT PLANT 1998 , 69-78		8
21	Sorption of polyaromatic compounds by organic matter-coated Ca ²⁺ and Fe ³⁺ montmorillonite. <i>Geoderma</i> , 2009 , 154, 36-41	6.7	7
20	Determination of hydroxylated fatty acids from the biopolymer of tomato cutin and their fate during incubation in soil. <i>Phytochemical Analysis</i> , 2010 , 21, 582-9	3.4	6
19	Composting and recycling of organic wastes 1997 , 341-362		6
18	Ecological Risk Dynamics of Pharmaceuticals in Micro-Estuary Environments. <i>Environmental Science & Technology</i> , 2020 , 54, 11182-11190	10.3	6
17	The importance of aromaticity to describe the interactions of organic matter with carbonaceous materials depends on molecular weight and sorbent geometry. <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 1888-1897	4.3	6
16	Interactions of organic dye with Ag- and Ce-nano-assemblies: Influence of dissolved organic matter. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 577, 683-694	5.1	5
15	Physicochemical Behavior of Tetracycline and 17 β -Ethinylestradiol with Wastewater Sludge-Derived Humic Substances. <i>Water, Air, and Soil Pollution</i> , 2014 , 225, 1	2.6	5
14	Environmental risk dynamics of pesticides toxicity in a Mediterranean micro-estuary. <i>Environmental Pollution</i> , 2020 , 265, 114941	9.3	4
13	Differential Adsorption of Silver Nanoparticles to the Inner and Outer Surfaces of the <i>Agave americana</i> Cuticle. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18082-18086	3.8	4

12	Sorption and Mobility of Charged Organic Compounds: How to Confront and Overcome Limitations in Their Assessment.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	4
11	Modeling concentration-dependent sorption-desorption hysteresis of atrazine in a loam soil. <i>Journal of Environmental Quality</i> , 2011 , 40, 538-47	3.4	2
10	Adsorption of Contaminants of Emerging Concern by Carbon Nanotubes: Influence of Dissolved Organic Matter 2013 , 763-767		2
9	Degradation of plant cuticles in soils: impact on formation and sorptive ability of humin-mineral matrices. <i>Journal of Environmental Quality</i> , 2015 , 44, 849-58	3.4	1
8	Fate of contaminants of emerging concern in the reclaimed wastewater-soil-plant continuum.. <i>Science of the Total Environment</i> , 2022 , 822, 153574	10.2	1
7	Comparison of adsorption behaviors of selected endocrine-disrupting compounds in soil. <i>Journal of Environmental Quality</i> , 2021 , 50, 756-767	3.4	1
6	Plant pharmacology: Insights into in-planta kinetic and dynamic processes of xenobiotics. <i>Critical Reviews in Environmental Science and Technology</i> , 1-22	11.1	1
5	Interplay of stress responses to carbamazepine treatment, whitefly infestation and virus infection in tomato plants. <i>Plant Stress</i> , 2021 , 1, 100009		1
4	ECORISK2050: An Innovative Training Network for predicting the effects of global change on the emission, fate, effects, and risks of chemicals in aquatic ecosystems. <i>Open Research Europe</i> , 1, 154		1
3	Abiotic Transformation of Lamotrigine by Redox-Active Mineral and Phenolic Compounds. <i>Environmental Science & Technology</i> , 2021 , 55, 1535-1544	10.3	0
2	Effects of DOM on Sorption of Polar Compounds to Soils: Sulfapyridine as a Case Study 2013 , 705-708		
1	ECORISK2050: An Innovative Training Network for predicting the effects of global change on the emission, fate, effects, and risks of chemicals in aquatic ecosystems. <i>Open Research Europe</i> , 1, 154		