

# Benny Chefetz

## 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.

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	Fate of contaminants of emerging concern in the reclaimed wastewater-soil-plant continuum.. <i>Science of the Total Environment</i> , <b>2022</b> , 822, 153574	10.2	1
118	Pharmaceutical pollution of the world's rivers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	37
117	Sorption and Mobility of Charged Organic Compounds: How to Confront and Overcome Limitations in Their Assessment.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	4
116	Comparison of adsorption behaviors of selected endocrine-disrupting compounds in soil. <i>Journal of Environmental Quality</i> , <b>2021</b> , 50, 756-767	3.4	1
115	Pharmaceuticals in edible crops irrigated with reclaimed wastewater: Evidence from a large survey in Israel. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 416, 126184	12.8	9
114	Interplay of stress responses to carbamazepine treatment, whitefly infestation and virus infection in tomato plants. <i>Plant Stress</i> , <b>2021</b> , 1, 100009		1
113	Abiotic Transformation of Lamotrigine by Redox-Active Mineral and Phenolic Compounds. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 1535-1544	10.3	0
112	Environmental risk dynamics of pesticides toxicity in a Mediterranean micro-estuary. <i>Environmental Pollution</i> , <b>2020</b> , 265, 114941	9.3	4
111	Pharmaceuticals in treated wastewater induce a stress response in tomato plants. <i>Scientific Reports</i> , <b>2020</b> , 10, 1856	4.9	8
110	Involuntary human exposure to carbamazepine: A cross-sectional study of correlates across the lifespan and dietary spectrum. <i>Environment International</i> , <b>2020</b> , 143, 105951	12.9	12
109	Ecological Risk Dynamics of Pharmaceuticals in Micro-Estuary Environments. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 11182-11190	10.3	6
108	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> , <b>2020</b> , 22, 1888-1897	4.3	6
107	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> , <b>2020</b> , 7, 2632-2643	7.1	16
106	A proof of concept study demonstrating that environmental levels of carbamazepine impair early stages of chick embryonic development. <i>Environment International</i> , <b>2019</b> , 129, 583-594	12.9	9
105	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> , <b>2019</b> , 21, 605-622	4.3	28
104	The pH and concentration dependent interfacial interaction and heteroaggregation between nanoparticulate zero-valent iron and clay mineral particles. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 2129-2140	7.1	19
103	Transformation of Ag ions into Ag nanoparticle-loaded AgCl microcubes in the plant root zone. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 1099-1110	7.1	10

102	Transformation of lamotrigine by white-rot fungus <i>Pleurotus ostreatus</i> . <i>Environmental Pollution</i> , <b>2019</b> , 250, 546-553	9.3	12
101	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> , <b>2019</b> , 690, 502-510	10.2	32
100	The missing link between carbon nanotubes, dissolved organic matter and organic pollutants. <i>Advances in Colloid and Interface Science</i> , <b>2019</b> , 271, 101993	14.3	9
99	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> , <b>2019</b> , 577, 683-694	5.1	5
98	Pesticide load dynamics during stormwater flow events in Mediterranean coastal streams: Alexander stream case study. <i>Science of the Total Environment</i> , <b>2018</b> , 625, 168-177	10.2	16
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> , <b>2018</b> , 232, 164-172	9.3	73
96	Composition-Dependent Sorptive Fractionation of Anthropogenic Dissolved Organic Matter by Fe(III)-Montmorillonite. <i>Soil Systems</i> , <b>2018</b> , 2, 14	3.5	18
95	Transformation of oxytetracycline by redox-active Fe(III)- and Mn(IV)-containing minerals: Processes and mechanisms. <i>Water Research</i> , <b>2018</b> , 145, 136-145	12.5	34
94	Bacterial inactivation by a carbon nanotube/iron oxide nanocomposite: a mechanistic study using <i>E. coli</i> mutants. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 372-380	7.1	19
93	Pharmacokinetics in Plants: Carbamazepine and Its Interactions with Lamotrigine. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 6957-6964	10.3	25
92	Dual functionality of an Ag-Fe <sub>3</sub> O <sub>4</sub> -carbon nanotube composite material: Catalytic reduction and antibacterial activity. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 4103-4113	6.8	20
91	Transformation and Speciation Analysis of Silver Nanoparticles of Dietary Supplement in Simulated Human Gastrointestinal Tract. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 8792-8800	10.3	30
90	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> , <b>2017</b> , 9, 1273-1281	3.2	29
89	Adsorptive fractionation of dissolved organic matter (DOM) by mineral soil: Macroscale approach and molecular insight. <i>Organic Geochemistry</i> , <b>2017</b> , 103, 113-124	3.1	78
88	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> , <b>2017</b> , 21, 3811-3825	5.5	20
87	Fate of carbamazepine, its metabolites, and lamotrigine in soils irrigated with reclaimed wastewater: Sorption, leaching and plant uptake. <i>Chemosphere</i> , <b>2016</b> , 160, 22-9	8.4	71
86	Adsorption and desorption of dissolved organic matter by carbon nanotubes: Effects of solution chemistry. <i>Environmental Pollution</i> , <b>2016</b> , 213, 90-98	9.3	40
85	Adsorption of Soil-Derived Humic Acid by Seven Clay Minerals: A Systematic Study. <i>Clays and Clay Minerals</i> , <b>2016</b> , 64, 628-638	2.1	29

84	Environmental exposure to pharmaceuticals: A new technique for trace analysis of carbamazepine and its metabolites in human urine. <i>Environmental Pollution</i> , <b>2016</b> , 213, 308-313	9.3	10
83	Human Exposure to Wastewater-Derived Pharmaceuticals in Fresh Produce: A Randomized Controlled Trial Focusing on Carbamazepine. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 4476-82	10.3	108
82	Removal of triazine-based pollutants from water by carbon nanotubes: Impact of dissolved organic matter (DOM) and solution chemistry. <i>Water Research</i> , <b>2016</b> , 106, 146-154	12.5	31
81	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> , <b>2015</b> , 82, 110-2	12.9	15
80	Adsorptive fractionation of dissolved organic matter (DOM) by carbon nanotubes. <i>Environmental Pollution</i> , <b>2015</b> , 197, 287-294	9.3	23
79	Transformation Pathways of the Recalcitrant Pharmaceutical Compound Carbamazepine by the White-Rot Fungus <i>Pleurotus ostreatus</i> : Effects of Growth Conditions. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 12351-62	10.3	60
78	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 &amp; Technology</i> , <b>2015</b> , 49, 12342-50	10.3	29
77	Dispersant selection for nanomaterials: Insight into dispersing functionalized carbon nanotubes by small polar aromatic organic molecules. <i>Carbon</i> , <b>2015</b> , 91, 494-505	10.4	23
76	Degradation of plant cuticles in soils: impact on formation and sorptive ability of humin-mineral matrices. <i>Journal of Environmental Quality</i> , <b>2015</b> , 44, 849-58	3.4	1
75	Biodegradability of pharmaceutical compounds in agricultural soils irrigated with treated wastewater. <i>Environmental Pollution</i> , <b>2014</b> , 185, 168-77	9.3	139
74	Reconstitution of cutin monomers on smectite surfaces: adsorption and esterification. <i>Geoderma</i> , <b>2014</b> , 232-234, 406-413	6.7	11
73	Insights into the uptake processes of wastewater-borne pharmaceuticals by vegetables. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 5593-600	10.3	220
72	Direct photodegradation of lamotrigine (an antiepileptic) in simulated sunlight--pH influenced rates and products. <i>Environmental Sciences: Processes and Impacts</i> , <b>2014</b> , 16, 848-57	4.3	16
71	Irrigation of root vegetables with treated wastewater: evaluating uptake of pharmaceuticals and the associated human health risks. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 9325-33	10.3	267
70	Physicochemical Behavior of Tetracycline and 17 $\beta$ -Ethinylestradiol with Wastewater Sludge-Derived Humic Substances. <i>Water, Air, and Soil Pollution</i> , <b>2014</b> , 225, 1	2.6	5
69	DOM-Affected Transformation of Contaminants on Mineral Surfaces: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2014</b> , 44, 223-254	11.1	54
68	Adsorption of carbamazepine by carbon nanotubes: effects of DOM introduction and competition with phenanthrene and bisphenol A. <i>Environmental Pollution</i> , <b>2013</b> , 182, 169-76	9.3	74
67	Complexation of trace organic contaminants with fractionated dissolved organic matter: implications for mass spectrometric quantification. <i>Chemosphere</i> , <b>2013</b> , 91, 344-50	8.4	25

66	Combined effects of biosolids application and irrigation with reclaimed wastewater on transport of pharmaceutical compounds in arable soils. <i>Water Research</i> , <b>2013</b> , 47, 3431-43	12.5	52
65	Solution-state NMR investigation of the sorptive fractionation of dissolved organic matter by alkaline mineral soils. <i>Environmental Chemistry</i> , <b>2013</b> , 10, 333	3.2	21
64	Adsorption of Contaminants of Emerging Concern by Carbon Nanotubes: Influence of Dissolved Organic Matter <b>2013</b> , 763-767		2
63	Effects of DOM on Sorption of Polar Compounds to Soils: Sulfapyridine as a Case Study <b>2013</b> , 705-708		
62	Sorptive and desorptive fractionation of dissolved organic matter by mineral soil matrices. <i>Journal of Environmental Quality</i> , <b>2012</b> , 41, 526-33	3.4	57
61	Pulmonary surfactant suppressed phenanthrene adsorption on carbon nanotubes through solubilization and competition as examined by passive dosing technique. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 5369-77	10.3	48
60	Insight into the role of dissolved organic matter in sorption of sulfapyridine by semiarid soils. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 11870-7	10.3	65
59	Quantifying PPCP interaction with dissolved organic matter in aqueous solution: combined use of fluorescence quenching and tandem mass spectrometry. <i>Water Research</i> , <b>2012</b> , 46, 943-54	12.5	67
58	Successive sorption-desorption cycles of dissolved organic matter in mineral soil matrices. <i>Geoderma</i> , <b>2012</b> , 189-190, 108-115	6.7	17
57	Interactions of aromatic acids with montmorillonite: Ca <sup>2+</sup> - and Fe <sup>3+</sup> -saturated clays versus Fe <sup>3+</sup> +Ca <sup>2+</sup> -clay system. <i>Geoderma</i> , <b>2011</b> , 160, 608-613	6.7	20
56	Interactions of carbamazepine in soil: effects of dissolved organic matter. <i>Journal of Environmental Quality</i> , <b>2011</b> , 40, 942-8	3.4	65
55	Sorption-desorption behavior of polybrominated diphenyl ethers in soils. <i>Environmental Pollution</i> , <b>2011</b> , 159, 2375-9	9.3	20
54	Uptake of carbamazepine by cucumber plants--a case study related to irrigation with reclaimed wastewater. <i>Chemosphere</i> , <b>2011</b> , 82, 905-10	8.4	200
53	Enhancement effect of water associated with natural organic matter (NOM) on organic compound-NOM interactions: a case study with carbamazepine. <i>Chemosphere</i> , <b>2011</b> , 82, 1454-60	8.4	16
52	Transformation of the recalcitrant pharmaceutical compound carbamazepine by <i>Pleurotus ostreatus</i> : role of cytochrome P450 monooxygenase and manganese peroxidase. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 6800-5	10.3	90
51	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> , <b>2011</b> , 218, 365-370	2.6	10
50	Adsorption and desorption of phenanthrene on carbon nanotubes in simulated gastrointestinal fluids. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 6018-24	10.3	102
49	Modeling concentration-dependent sorption-desorption hysteresis of atrazine in a loam soil. <i>Journal of Environmental Quality</i> , <b>2011</b> , 40, 538-47	3.4	2

48	Cutin and Cutan Biopolymers: Their Role as Natural Sorbents. <i>Soil Science Society of America Journal</i> , <b>2010</b> , 74, 1139-1146	2.5	9
47	Adsorption and oxidative transformation of phenolic acids By Fe(III)-montmorillonite. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 4203-9	10.3	45
46	Sorption of the pharmaceuticals carbamazepine and naproxen to dissolved organic matter: role of structural fractions. <i>Water Research</i> , <b>2010</b> , 44, 981-9	12.5	83
45	Determination of hydroxylated fatty acids from the biopolymer of tomato cutin and their fate during incubation in soil. <i>Phytochemical Analysis</i> , <b>2010</b> , 21, 582-9	3.4	6
44	Sorption of polyaromatic compounds by organic matter-coated Ca <sup>2+</sup> - and Fe <sup>3+</sup> -montmorillonite. <i>Geoderma</i> , <b>2009</b> , 154, 36-41	6.7	7
43	Relative role of aliphatic and aromatic moieties as sorption domains for organic compounds: a review. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 1680-8	10.3	195
42	Differential Adsorption of Silver Nanoparticles to the Inner and Outer Surfaces of the Agave americana Cuticle. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 18082-18086	3.8	4
41	Sorption of organic compounds to humin from soils irrigated with reclaimed wastewater. <i>Geoderma</i> , <b>2008</b> , 145, 98-106	6.7	14
40	Sorption and mobility of pharmaceutical compounds in soil irrigated with reclaimed wastewater. <i>Chemosphere</i> , <b>2008</b> , 73, 1335-43	8.4	233
39	Insights into the sorption properties of cutin and cutan biopolymers. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 1165-71	10.3	24
38	Interactions of hydrophobic fractions of dissolved organic matter with Fe(3+) - and Cu(2+)-montmorillonite. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 4797-803	10.3	46
37	Binding of pyrene to hydrophobic fractions of dissolved organic matter: effect of polyvalent metal complexation. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 5389-94	10.3	54
36	Decomposition and sorption characterization of plant cuticles in soil. <i>Plant and Soil</i> , <b>2007</b> , 298, 21-30	4.2	10
35	Spectroscopic Characterization of Aliphatic Moieties in Four Plant Cuticles. <i>Communications in Soil Science and Plant Analysis</i> , <b>2007</b> , 38, 2461-2478	1.5	37
34	Competitive sorption-desorption behavior of triazine herbicides with plant cuticular fractions. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 7761-8	5.7	26
33	Interactions of sodium azide with triazine herbicides: effect on sorption to soils. <i>Chemosphere</i> , <b>2006</b> , 65, 352-7	8.4	28
32	Persistent organic pollutants and sedimentary organic matter properties: a case study in the Kishon River, Israel. <i>Environmental Pollution</i> , <b>2006</b> , 141, 265-74	9.3	35
31	The role of lipids on sorption characteristics of freshwater- and wastewater-irrigated soils. <i>Journal of Environmental Quality</i> , <b>2006</b> , 35, 2154-61	3.4	22



30	Transformation of Plant Cuticles in Soil. <i>Soil Science Society of America Journal</i> , <b>2006</b> , 70, 1101-1109	2.5	24
29	Sorption of polar and nonpolar aromatic organic contaminants by plant cuticular materials: role of polarity and accessibility. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 6138-46	10.3	195
28	Comparison of polycyclic aromatic hydrocarbon distributions and sedimentary organic matter characteristics in contaminated, coastal sediments from Pensacola Bay, Florida. <i>Marine Environmental Research</i> , <b>2005</b> , 59, 139-63	3.3	24
27	Sorption-desorption behavior of polycyclic aromatic hydrocarbons in upstream and downstream river sediments. <i>Chemosphere</i> , <b>2005</b> , 61, 19-29	8.4	52
26	Interactions of organic compounds with wastewater dissolved organic matter: role of hydrophobic fractions. <i>Journal of Environmental Quality</i> , <b>2005</b> , 34, 552-62	3.4	74
25	Sorption-Desorption Behavior of Atrazine in Soils Irrigated with Reclaimed Wastewater. <i>Soil Science Society of America Journal</i> , <b>2005</b> , 69, 1703-1710	2.5	48
24	Solid-state NMR characterization of pyrene-cuticular matter interactions. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 4369-76	10.3	33
23	Sorption-desorption behavior of triazine and phenylurea herbicides in Kishon river sediments. <i>Water Research</i> , <b>2004</b> , 38, 4383-94	12.5	93
22	Phenanthrene sorption to structurally modified humic acids. <i>Journal of Environmental Quality</i> , <b>2003</b> , 32, 1750-8	3.4	69
21	Sorption of phenanthrene and atrazine by plant cuticular fractions. <i>Environmental Toxicology and Chemistry</i> , <b>2003</b> , 22, 2492-8	3.8	64
20	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> , <b>2002</b> , 66, 1159-1171	2.5	80
19	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> , <b>2002</b> , 66, 129-141	2.5	67
18	Phenanthrene sorption by aliphatic-rich natural organic matter. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 1953-8	10.3	240
17	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> , <b>2002</b> , 66, 129	2.5	57
16	Characterization of organic matter in pristine and contaminated coastal marine sediments using solid-state <sup>13</sup> C NMR, pyrolytic and thermochemolytic methods: a case study in the San Diego harbor area. <i>Chemosphere</i> , <b>2001</b> , 45, 1007-22	8.4	29
15	Organic Matter Transformations During the Weathering Process of Spent Mushroom Substrate. <i>Journal of Environmental Quality</i> , <b>2000</b> , 29, 592-602	3.4	21
14	Characterization of Organic Matter in Soils by Thermochemolysis Using Tetramethylammonium Hydroxide (TMAH). <i>Soil Science Society of America Journal</i> , <b>2000</b> , 64, 583-589	2.5	90
13	Pyrene Sorption by Natural Organic Matter. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 2925-2930	10.3	268

12	Isolation and partial characterization of laccase from a thermophilic composted municipal solid waste. <i>Soil Biology and Biochemistry</i> , <b>1998</b> , 30, 1091-1098	7.5	24
11	A Novel Method For Determining Phytotoxicity In Composts. <i>Compost Science and Utilization</i> , <b>1998</b> , 6, 6-13	1.2	26
10	Characterization of Dissolved Organic Matter Extracted from Composted Municipal Solid Waste. <i>Soil Science Society of America Journal</i> , <b>1998</b> , 62, 326	2.5	113
9	Humic-Acid Transformation during Composting of Municipal Solid Waste. <i>Journal of Environmental Quality</i> , <b>1998</b> , 27, 794-800	3.4	62
8	CHARACTERIZATION AND PROPERTIES OF HUMIC SUBSTANCES ORIGINATING FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT PLANT <b>1998</b> , 69-78		8
7	Purification and characterization of laccase from <i>Chaetomium thermophilum</i> and its role in humification. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 3175-9	4.8	202
6	Composting and recycling of organic wastes <b>1997</b> , 341-362		6
5	Chemical and Biological Characterization of Organic Matter during Composting of Municipal Solid Waste. <i>Journal of Environmental Quality</i> , <b>1996</b> , 25, 776-785	3.4	258
4	Formation and properties of humic substance originating from composts <b>1996</b> , 382-393		32
3	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
2	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
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		