Benny Chefetz

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Pharmaceutical pollution of the world's rivers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	495
2	Irrigation of Root Vegetables with Treated Wastewater: Evaluating Uptake of Pharmaceuticals and the Associated Human Health Risks. Environmental Science & Technology, 2014, 48, 9325-9333.	4.6	352
3	Chemical and Biological Characterization of Organic Matter during Composting of Municipal Solid Waste. Journal of Environmental Quality, 1996, 25, 776-785.	1.0	314
4	Pyrene Sorption by Natural Organic Matter. Environmental Science & Technology, 2000, 34, 2925-2930.	4.6	297
5	Insights into the Uptake Processes of Wastewater-Borne Pharmaceuticals by Vegetables. Environmental Science & Technology, 2014, 48, 5593-5600.	4.6	272
6	Sorption and mobility of pharmaceutical compounds in soil irrigated with reclaimed wastewater. Chemosphere, 2008, 73, 1335-1343.	4.2	269
7	Phenanthrene Sorption by Aliphatic-Rich Natural Organic Matter. Environmental Science & Technology, 2002, 36, 1953-1958.	4.6	262
8	Uptake of carbamazepine by cucumber plants – A case study related to irrigation with reclaimed wastewater. Chemosphere, 2011, 82, 905-910.	4.2	229
9	Purification and Characterization of Laccase from <i>Chaetomium thermophilium</i> and Its Role in Humification. Applied and Environmental Microbiology, 1998, 64, 3175-3179.	1.4	228
10	Sorption of Polar and Nonpolar Aromatic Organic Contaminants by Plant Cuticular Materials:  Role of Polarity and Accessibility. Environmental Science & Technology, 2005, 39, 6138-6146.	4.6	222
11	Relative Role of Aliphatic and Aromatic Moieties as Sorption Domains for Organic Compounds: A Review. Environmental Science & Technology, 2009, 43, 1680-1688.	4.6	216
12	Biodegradability of pharmaceutical compounds in agricultural soils irrigated with treated wastewater. Environmental Pollution, 2014, 185, 168-177.	3.7	174
13	Human Exposure to Wastewater-Derived Pharmaceuticals in Fresh Produce: A Randomized Controlled Trial Focusing on Carbamazepine. Environmental Science & Technology, 2016, 50, 4476-4482.	4.6	138
14	Characterization of Dissolved Organic Matter Extracted from Composted Municipal Solid Waste. Soil Science Society of America Journal, 1998, 62, 326-332.	1.2	129
15	Adsorption and Desorption of Phenanthrene on Carbon Nanotubes in Simulated Gastrointestinal Fluids. Environmental Science & Technology, 2011, 45, 6018-6024.	4.6	125
16	Pharmaceutical and Personal Care Products: From Wastewater Treatment into Agro-Food Systems. Environmental Science & Technology, 2019, 53, 14083-14090.	4.6	120
17	Transformation of the Recalcitrant Pharmaceutical Compound Carbamazepine by <i>Pleurotus ostreatus</i> : Role of Cytochrome P450 Monooxygenase and Manganese Peroxidase. Environmental Science & Technology, 2011, 45, 6800-6805.	4.6	112
18	Composted biosolids and treated wastewater as sources of pharmaceuticals and personal care products for plant uptake: A case study with carbamazepine. Environmental Pollution, 2018, 232, 164-172.	3.7	111

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19	Sorption–desorption behavior of triazine and phenylurea herbicides in Kishon river sediments. Water Research, 2004, 38, 4383-4394.	5.3	105
20	Adsorptive fractionation of dissolved organic matter (DOM) by mineral soil: Macroscale approach and molecular insight. Organic Geochemistry, 2017, 103, 113-124.	0.9	102
21	Sorption of the pharmaceuticals carbamazepine and naproxen to dissolved organic matter: Role of structural fractions. Water Research, 2010, 44, 981-989.	5.3	97
22	Characterization of Organic Matter in Soils by Thermochemolysis Using Tetramethylammonium Hydroxide (TMAH). Soil Science Society of America Journal, 2000, 64, 583-589.	1.2	96
23	Fate of carbamazepine, its metabolites, and lamotrigine in soils irrigated with reclaimed wastewater: Sorption, leaching and plant uptake. Chemosphere, 2016, 160, 22-29.	4.2	95
24	Structural Components of Humic Acids as Determined by Chemical Modifications and Carbonâ€13 NMR, Pyrolysisâ€, and Thermochemolysisâ€Gas Chromatography/Mass Spectrometry. Soil Science Society of America Journal, 2002, 66, 1159-1171.	1.2	88
25	Adsorption of carbamazepine by carbon nanotubes: Effects of DOM introduction and competition with phenanthrene and bisphenol A. Environmental Pollution, 2013, 182, 169-176.	3.7	87
26	Interactions of Organic Compounds with Wastewater Dissolved Organic Matter: Role of Hydrophobic Fractions. Journal of Environmental Quality, 2005, 34, 552-562.	1.0	86
27	Structural Characterization of Soil Organic Matter and Humic Acids in Particleâ€Size Fractions of an Agricultural Soil. Soil Science Society of America Journal, 2002, 66, 129-141.	1.2	85
28	Quantifying PPCP interaction with dissolved organic matter in aqueous solution: Combined use of fluorescence quenching and tandem mass spectrometry. Water Research, 2012, 46, 943-954.	5.3	83
29	Insight into the Role of Dissolved Organic Matter in Sorption of Sulfapyridine by Semiarid Soils. Environmental Science & Technology, 2012, 46, 11870-11877.	4.6	80
30	Humicâ€Acid Transformation during Composting of Municipal Solid Waste. Journal of Environmental Quality, 1998, 27, 794-800.	1.0	78
31	Phenanthrene Sorption to Structurally Modified Humic Acids. Journal of Environmental Quality, 2003, 32, 1750-1758.	1.0	78
32	Sorptive and Desorptive Fractionation of Dissolved Organic Matter by Mineral Soil Matrices. Journal of Environmental Quality, 2012, 41, 526-533.	1.0	78
33	Interactions of Carbamazepine in Soil: Effects of Dissolved Organic Matter. Journal of Environmental Quality, 2011, 40, 942-948.	1.0	75
34	DOM-Affected Transformation of Contaminants on Mineral Surfaces: A Review. Critical Reviews in Environmental Science and Technology, 2014, 44, 223-254.	6.6	74
35	Transformation Pathways of the Recalcitrant Pharmaceutical Compound Carbamazepine by the White-Rot Fungus <i>Pleurotus ostreatus</i> : Effects of Growth Conditions. Environmental Science & Technology, 2015, 49, 12351-12362.	4.6	71
36	SORPTION OF PHENANTHRENE AND ATRAZINE BY PLANT CUTICULAR FRACTIONS. Environmental Toxicology and Chemistry, 2003, 22, 2492.	2.2	67

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37	Maize (Zea mays L.) root exudates modify the surface chemistry of CuO nanoparticles: Altered aggregation, dissolution and toxicity. Science of the Total Environment, 2019, 690, 502-510.	3.9	67
38	Combined effects of biosolids application and irrigation with reclaimed wastewater on transport of pharmaceutical compounds in arable soils. Water Research, 2013, 47, 3431-3443.	5.3	65
39	Structural Characterization of Soil Organic Matter and Humic Acids in Particle-Size Fractions of an Agricultural Soil. Soil Science Society of America Journal, 2002, 66, 129.	1.2	64
40	Binding of Pyrene to Hydrophobic Fractions of Dissolved Organic Matter:Â Effect of Polyvalent Metal Complexation. Environmental Science & Technology, 2007, 41, 5389-5394.	4.6	61
41	Sorption-Desorption Behavior of Atrazine in Soils Irrigated with Reclaimed Wastewater. Soil Science Society of America Journal, 2005, 69, 1703-1710.	1.2	58
42	Sorption–desorption behavior of polycyclic aromatic hydrocarbons in upstream and downstream river sediments. Chemosphere, 2005, 61, 19-29.	4.2	58
43	Pulmonary Surfactant Suppressed Phenanthrene Adsorption on Carbon Nanotubes through Solubilization and Competition As Examined by Passive Dosing Technique. Environmental Science & Technology, 2012, 46, 5369-5377.	4.6	56
44	Adsorption And Oxidative Transformation Of Phenolic Acids By Fe(III)-Montmorillonite. Environmental Science & Technology, 2010, 44, 4203-4209.	4.6	55
45	Emerging investigator series: towards a framework for establishing the impacts of pharmaceuticals in wastewater irrigation systems on agro-ecosystems and human health. Environmental Sciences: Processes and Impacts, 2019, 21, 605-622.	1.7	55
46	Transformation of oxytetracycline by redox-active Fe(III)- and Mn(IV)-containing minerals: Processes and mechanisms. Water Research, 2018, 145, 136-145.	5.3	54
47	Pharmaceuticals in edible crops irrigated with reclaimed wastewater: Evidence from a large survey in Israel. Journal of Hazardous Materials, 2021, 416, 126184.	6.5	54
48	Interactions of Hydrophobic Fractions of Dissolved Organic Matter with Fe ³⁺ - and Cu ²⁺ -Montmorillonite. Environmental Science & Technology, 2008, 42, 4797-4803.	4.6	53
49	Adsorption and desorption of dissolved organic matter by carbon nanotubes: Effects of solution chemistry. Environmental Pollution, 2016, 213, 90-98.	3.7	52
50	Adsorption of Soil-Derived Humic Acid by Seven Clay Minerals: A Systematic Study. Clays and Clay Minerals, 2016, 64, 628-638.	0.6	49
51	Removal of triazine-based pollutants from water by carbon nanotubes: Impact of dissolved organic matter (DOM) and solution chemistry. Water Research, 2016, 106, 146-154.	5.3	43
52	Copper sulfide nanoparticles suppress <i>Gibberella fujikuroi</i> infection in rice (<i>Oryza sativa</i>) Tj ETQq0 0 Environmental Science: Nano, 2020, 7, 2632-2643.) 0 rgBT /C 2.2	Overlock 10 T 43
53	Persistent organic pollutants and sedimentary organic matter properties: A case study in the Kishon River, Israel. Environmental Pollution, 2006, 141, 265-274.	3.7	41
54	Spectroscopic Characterization of Aliphatic Moieties in Four Plant Cuticles. Communications in Soil Science and Plant Analysis, 2007, 38, 2461-2478.	0.6	41

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55	Transformation and Speciation Analysis of Silver Nanoparticles of Dietary Supplement in Simulated Human Gastrointestinal Tract. Environmental Science & Technology, 2018, 52, 8792-8800.	4.6	41
56	Sorption and Mobility of Charged Organic Compounds: How to Confront and Overcome Limitations in Their Assessment. Environmental Science & amp; Technology, 2022, 56, 4702-4710.	4.6	41
57	Formation and properties of humic substance originating from composts. , 1996, , 382-393.		38
58	Solid-State NMR Characterization of Pyreneâ^'Cuticular Matter Interactions. Environmental Science & amp; Technology, 2004, 38, 4369-4376.	4.6	35
59	An LC-MS/MS method for the determination of 28 polar environmental contaminants and metabolites in vegetables irrigated with treated municipal wastewater. Analytical Methods, 2017, 9, 1273-1281.	1.3	35
60	Interactions of sodium azide with triazine herbicides: Effect on sorption to soils. Chemosphere, 2006, 65, 352-357.	4.2	34
61	Dual functionality of an Ag-Fe3O4-carbon nanotube composite material: Catalytic reduction and antibacterial activity. Journal of Environmental Chemical Engineering, 2018, 6, 4103-4113.	3.3	34
62	A Novel Method For Determining Phytotoxicity In Composts. Compost Science and Utilization, 1998, 6, 6-13.	1.2	33
63	Pharmacokinetics in Plants: Carbamazepine and Its Interactions with Lamotrigine. Environmental Science & Technology, 2018, 52, 6957-6964.	4.6	33
64	The pH and concentration dependent interfacial interaction and heteroaggregation between nanoparticulate zero-valent iron and clay mineral particles. Environmental Science: Nano, 2019, 6, 2129-2140.	2.2	33
65	Characterization of organic matter in pristine and contaminated coastal marine sediments using solid-state 13C NMR, pyrolytic and thermochemolytic methods: a case study in the San Diego harbor area. Chemosphere, 2001, 45, 1007-1022.	4.2	32
66	Solution-state NMR investigation of the sorptive fractionation of dissolved organic matter by alkaline mineral soils. Environmental Chemistry, 2013, 10, 333.	0.7	32
67	Electrochemistry Combined with LC–HRMS: Elucidating Transformation Products of the Recalcitrant Pharmaceutical Compound Carbamazepine Generated by the White-Rot Fungus Pleurotus ostreatus. Environmental Science & Technology, 2015, 49, 12342-12350.	4.6	32
68	Competitive Sorptionâ^'Desorption Behavior of Triazine Herbicides with Plant Cuticular Fractions. Journal of Agricultural and Food Chemistry, 2006, 54, 7761-7768.	2.4	30
69	Complexation of trace organic contaminants with fractionated dissolved organic matter: Implications for mass spectrometric quantification. Chemosphere, 2013, 91, 344-350.	4.2	30
70	Ecological Risk Dynamics of Pharmaceuticals in Micro-Estuary Environments. Environmental Science & Technology, 2020, 54, 11182-11190.	4.6	30
71	Comparison of polycyclic aromatic hydrocarbon distributions and sedimentary organic matter characteristics in contaminated, coastal sediments from Pensacola Bay, Florida. Marine Environmental Research, 2005, 59, 139-163.	1.1	28
72	Adsorptive fractionation of dissolved organic matter (DOM) by carbon nanotubes. Environmental Pollution, 2015, 197, 287-294.	3.7	28

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73	Modeling nitrate from land surface to wells' perforations under agricultural land: success, failure, and future scenarios in a Mediterranean case study. Hydrology and Earth System Sciences, 2017, 21, 3811-3825.	1.9	28
74	Involuntary human exposure to carbamazepine: A cross-sectional study of correlates across the lifespan and dietary spectrum. Environment International, 2020, 143, 105951.	4.8	28
75	Fate of contaminants of emerging concern in the reclaimed wastewater-soil-plant continuum. Science of the Total Environment, 2022, 822, 153574.	3.9	27
76	Isolation and partial characterization of laccase from a thermophilic composted municipal solid waste. Soil Biology and Biochemistry, 1998, 30, 1091-1098.	4.2	26
77	Insights into the Sorption Properties of Cutin and Cutan Biopolymers. Environmental Science & Technology, 2008, 42, 1165-1171.	4.6	26
78	Sorption–desorption behavior of polybrominated diphenyl ethers in soils. Environmental Pollution, 2011, 159, 2375-2379.	3.7	26
79	Dispersant selection for nanomaterials: Insight into dispersing functionalized carbon nanotubes by small polar aromatic organic molecules. Carbon, 2015, 91, 494-505.	5.4	26
80	Transformation of Plant Cuticles in Soil. Soil Science Society of America Journal, 2006, 70, 1101-1109.	1.2	25
81	Pesticide load dynamics during stormwater flow events in Mediterranean coastal streams: Alexander stream case study. Science of the Total Environment, 2018, 625, 168-177.	3.9	25
82	Composition-Dependent Sorptive Fractionation of Anthropogenic Dissolved Organic Matter by Fe(III)-Montmorillonite. Soil Systems, 2018, 2, 14.	1.0	25
83	Successive sorption–desorption cycles of dissolved organic matter in mineral soil matrices. Geoderma, 2012, 189-190, 108-115.	2.3	24
84	Organic Matter Transformations During the Weathering Process of Spent Mushroom Substrate. Journal of Environmental Quality, 2000, 29, 592-602.	1.0	22
85	The Role of Lipids on Sorption Characteristics of Freshwater- and Wastewater-Irrigated Soils. Journal of Environmental Quality, 2006, 35, 2154-2161.	1.0	22
86	Interactions of aromatic acids with montmorillonite: Ca2+- and Fe3+-saturated clays versus Fe3+–Ca2+-clay system. Geoderma, 2011, 160, 608-613.	2.3	22
87	Bacterial inactivation by a carbon nanotube–iron oxide nanocomposite: a mechanistic study usingE. colimutants. Environmental Science: Nano, 2018, 5, 372-380.	2.2	22
88	Enhancement effect of water associated with natural organic matter (NOM) on organic compound–NOM interactions: A case study with carbamazepine. Chemosphere, 2011, 82, 1454-1460.	4.2	21
89	A proof of concept study demonstrating that environmental levels of carbamazepine impair early stages of chick embryonic development. Environment International, 2019, 129, 583-594.	4.8	20
90	Direct photodegradation of lamotrigine (an antiepileptic) in simulated sunlight – pH influenced rates and products. Environmental Sciences: Processes and Impacts, 2014, 16, 848-857.	1.7	19

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91	Comments on "Human health risk assessment of pharmaceuticals and personal care products in plant tissue due to biosolids and manure amendments, and wastewater irrigation― Environment International, 2015, 82, 110-112.	4.8	19
92	Transformation of lamotrigine by white-rot fungus Pleurotus ostreatus. Environmental Pollution, 2019, 250, 546-553.	3.7	18
93	Environmental risk dynamics of pesticides toxicity in a Mediterranean micro-estuary. Environmental Pollution, 2020, 265, 114941.	3.7	18
94	Pharmaceuticals in treated wastewater induce a stress response in tomato plants. Scientific Reports, 2020, 10, 1856.	1.6	17
95	Sorption of organic compounds to humin from soils irrigated with reclaimed wastewater. Geoderma, 2008, 145, 98-106.	2.3	15
96	Transformation of Ag ions into Ag nanoparticle-loaded AgCl microcubes in the plant root zone. Environmental Science: Nano, 2019, 6, 1099-1110.	2.2	15
97	Decomposition and sorption characterization of plant cuticles in soil. Plant and Soil, 2007, 298, 21-30.	1.8	13
98	The importance of aromaticity to describe the interactions of organic matter with carbonaceous materials depends on molecular weight and sorbent geometry. Environmental Sciences: Processes and Impacts, 2020, 22, 1888-1897.	1.7	13
99	Removal of Silver and Lead Ions from Water Wastes Using Azolla filiculoides, an Aquatic Plant, Which Adsorbs and Reduces the Ions into the Corresponding Metallic Nanoparticles Under Microwave Radiation in 5Âmin. Water, Air, and Soil Pollution, 2011, 218, 365-370.	1.1	12
100	Reconstitution of cutin monomers on smectite surfaces: adsorption and esterification. Geoderma, 2014, 232-234, 406-413.	2.3	12
101	Cutin and Cutan Biopolymers: Their Role as Natural Sorbents. Soil Science Society of America Journal, 2010, 74, 1139-1146.	1.2	11
102	Environmental exposure to pharmaceuticals: A new technique for trace analysis of carbamazepine and its metabolites in human urine. Environmental Pollution, 2016, 213, 308-313.	3.7	11
103	The missing link between carbon nanotubes, dissolved organic matter and organic pollutants. Advances in Colloid and Interface Science, 2019, 271, 101993.	7.0	11
104	Plant pharmacology: Insights into <i>in-planta</i> kinetic and dynamic processes of xenobiotics. Critical Reviews in Environmental Science and Technology, 2022, 52, 3525-3546.	6.6	11
105	Interactions of organic dye with Ag- and Ce-nano-assemblies: Influence of dissolved organic matter. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 577, 683-694.	2.3	9
106	CHARACTERIZATION AND PROPERTIES OF HUMIC SUBSTANCES ORIGINATING FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT PLANT. , 1998, , 69-78.		8
107	Sorption of polyaromatic compounds by organic matter-coated Ca2+– and Fe3+–montmorillonite. Geoderma, 2009, 154, 36-41.	2.3	7
108	Determination of hydroxylated fatty acids from the biopolymer of tomato cutin and their fate during incubation in soil. Phytochemical Analysis, 2010, 21, 582-589.	1.2	7

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109	Composting and recycling of organic wastes. , 1997, , 341-362.		7
110	Physicochemical Behavior of Tetracycline and 17α-Ethinylestradiol with Wastewater Sludge-Derived Humic Substances. Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	6
111	Comparison of adsorption behaviors of selected endocrineâ€disrupting compounds in soil. Journal of Environmental Quality, 2021, 50, 756-767.	1.0	6
112	Abiotic Transformation of Lamotrigine by Redox-Active Mineral and Phenolic Compounds. Environmental Science & Technology, 2021, 55, 1535-1544.	4.6	5
113	Differential Adsorption of Silver Nanoparticles to the Inner and Outer Surfaces of the Agave americana Cuticle. Journal of Physical Chemistry C, 2008, 112, 18082-18086.	1.5	4
114	Interplay of stress responses to carbamazepine treatment, whitefly infestation and virus infection in tomato plants. Plant Stress, 2021, 1, 100009.	2.7	3
115	ECORISK2050: An Innovative Training Network for predictingÂthe effects of global change on the emission, fate, effects, and risks of chemicals in aquatic ecosystems. Open Research Europe, 0, 1, 154.	2.0	3
116	Modeling Concentrationâ€Đependent Sorption–Desorption Hysteresis of Atrazine in a Sandy Loam Soil. Journal of Environmental Quality, 2011, 40, 538-547.	1.0	2
117	Degradation of Plant Cuticles in Soils: Impact on Formation and Sorptive Ability of Humin-Mineral Matrices. Journal of Environmental Quality, 2015, 44, 849-858.	1.0	1
118	ECORISK2050: An Innovative Training Network for predictingÂthe effects of global change on the emission, fate, effects, and risks of chemicals in aquatic ecosystems. Open Research Europe, 0, 1, 154.	2.0	0