Yu-min Tzou

List of Publications by Year
in descending order

57 papers	2,111 citations	186265 28 h-index	233421 45 g-index
57 all docs	57 docs citations	57 times ranked	2898 citing authors

#	Article	IF	Citations
1	Removal of hexavalent Cr by coconut coir and derived chars â€“ The effect of surface functionality. Bioresource Technology, 2012, 104, 165-172.	9.6	150
2	Cr(VI) Removal on Fungal Biomass of <i>Neurospora crassa</i>: the Importance of Dissolved Organic Carbons Derived from the Biomass to Cr(VI) Reduction. Environmental Science & Technology, 2010, 44, 6202-6208.	10.0	115
3	Catalytic and atmospheric effects on microwave pyrolysis of corn stover. Bioresource Technology, 2013, 131, 274-280.	9.6	92
4	Biosorption of Cr(VI) by coconut coir: Spectroscopic investigation on the reaction mechanism of Cr(VI) with lignocellulosic material. Journal of Hazardous Materials, 2010, 179, 160-165.	12.4	87
5	Removal of 3-chlorophenol from water using rice-straw-based carbon. Journal of Hazardous Materials, 2007, 147, 313-318.	12.4	86
6	Removal of hexavalent chromium from acidic aqueous solutions using rice straw-derived carbon. Journal of Hazardous Materials, 2009, 171, 1066-1070.	12.4	84
7	Photocatalytic Reduction of Cr(VI) in the Presence of NO₃⁻ and Cl⁻ Electrolytes as Influenced by Fe(III). Environmental Science & Technology, 2007, 41, 7907-7914.	10.0	76
8	Stabilization of Natural Organic Matter by Short-Range-Order Iron Hydroxides. Environmental Science & Technology, 2016, 50, 12612-12620.	10.0	75
9	Accumulation of heavy metals and trace elements in fluvial sediments received effluents from traditional and semiconductor industries. Scientific Reports, 2016, 6, 34250.	3.3	74
10	The removal and recovery of Cr(VI) by Li/Al layered double hydroxide (LDH). Journal of Hazardous Materials, 2007, 142, 242-249.	12.4	68
11	Chromate reduction by zero-valent Al metal as catalyzed by polyoxometalate. Water Research, 2009, 43, 5015-5022.	11.3	65
12	Phosphate removal from water using lithium intercalated gibbsite. Journal of Hazardous Materials, 2007, 147, 205-212.	12.4	63
13	Adsorption and thermal desorption of Cr(VI) on Li/Al layered double hydroxide. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 277, 8-14.	4.7	54
14	Influence of chemical compositions and molecular weights of humic acids on Cr(VI) photo-reduction. Journal of Hazardous Materials, 2011, 197, 337-344.	12.4	50
15	Chromate reduction on humic acid derived from a peat soil â€“ Exploration of the activated sites on HAs for chromate removal. Chemosphere, 2012, 87, 587-594.	8.2	50
16	Photolysis and photocatalytic decomposition of sulfamethazine antibiotics in an aqueous solution with TiO₂. RSC Advances, 2016, 6, 69301-69310.	3.6	48
17	Adsorption of tetracycline on Fe (hydr)oxides: effects of pH and metal cation (Cu ²⁺ , Zn) Tj ETQq1 1 0.784314 rgBT /Ov 2018, 5, 171941.	2.4	48
18	Comparison and characterization of chemical surfactants and bio-surfactants intercalated with layered double hydroxides (LDHs) for removing naphthalene from contaminated aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 366, 170-177.	4.7	47

#	Article	IF	Citations
19	Comparison of the spectroscopic speciation and chemical fractionation of chromium in contaminated paddy soils. Journal of Hazardous Materials, 2015, 296, 230-238.	12.4	45
20	Deintercalation of Li/Al LDH and its application to recover adsorbed chromate from used adsorbent. Applied Clay Science, 2007, 37, 107-114.	5.2	43
21	A mechanism study of light-induced Cr(VI) reduction in an acidic solution. Journal of Hazardous Materials, 2009, 164, 223-228.	12.4	41
22	Phosphate sorption by calcite, and iron-rich calcareous soils. Geoderma, 1995, 65, 249-261.	5.1	39
23	Effect of temperatures on formation and transformation of hydrolytic aluminum in aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 231, 143-157.	4.7	39
24	Sorption of Phosphate and Cr(VI) by Fe(III) and Cr(III) Hydroxides. Archives of Environmental Contamination and Toxicology, 2003, 44, 445-453.	4.1	35
25	A comparison of the compositional differences between humic fractions isolated by the IHSS and exhaustive extraction procedures. Die Naturwissenschaften, 2014, 101, 197-209.	1.6	32
26	Kinetics and equilibrium adsorption study of selenium oxyanions onto Al/Si and Fe/Si coprecipitates. Chemosphere, 2018, 198, 59-67.	8.2	31
27	Removal of 2,4,6-trichlorophenol from a solution by humic acids repeatedly extracted from a peat soil. Journal of Hazardous Materials, 2008, 152, 812-819.	12.4	30
28	Removal and simultaneous reduction of Cr(VI) by organo-Fe(III) composites produced during coprecipitation and coagulation processes. Journal of Hazardous Materials, 2019, 376, 12-20.	12.4	30
29	The adsorption and catalytic transformations of chromium on Mn substituted goethite. Applied Catalysis B: Environmental, 2007, 75, 272-280.	20.2	29
30	Removal of sulfamethazine antibiotics using cow manure-based carbon adsorbents. International Journal of Environmental Science and Technology, 2016, 13, 973-984.	3.5	28
31	Adsorption mechanisms of chromate and phosphate on hydrotalcite: A combination of macroscopic and spectroscopic studies. Environmental Pollution, 2019, 247, 180-187.	7.5	27
32	Separation and identification of soil nanoparticles by conventional and synchrotron X-ray diffraction. Applied Clay Science, 2013, 85, 1-7.	5.2	25
33	Fluorescent light induced Cr(VI) reduction by citrate in the presence of TiO2 and ferric ions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 253, 15-22.	4.7	23
34	Effect of N -hydroxyethyl-ethylenediamine-triacetic acid (HEDTA) on Cr(VI) reduction by Fe(II). Chemosphere, 2003, 51, 993-1000.	8.2	22
35	Kinetic Modeling for Microwave-Enhanced Degradation of Methylene Blue Using Manganese Oxide. International Journal of Photoenergy, 2013, 2013, 1-9.	2.5	22
36	MS title: Catalytic oxidation and removal of arsenite in the presence of Fe ions and zero-valent Al metals. Journal of Hazardous Materials, 2016, 317, 237-245.	12.4	18

#	Article	IF	Citations
37	Chromate removal as influenced by the structural changes of soil components upon carbonization at different temperatures. Environmental Pollution, 2012, 162, 151-158.	7.5	17
38	Use 3-D tomography to reveal structural modification of bentonite-enriched clay by nonionic surfactants: Application of organo-clay composites to detoxify aflatoxin B1 in chickens. Journal of Hazardous Materials, 2019, 375, 312-319.	12.4	16
39	Influence of inorganic anion on Cr(VI) photo-reduction in the presence of ferric ion. Journal of Hazardous Materials, 2008, 156, 374-380.	12.4	15
40	Unravelling the mechanism of amitriptyline removal from water by natural montmorillonite through batch adsorption, molecular simulation and adsorbent characterization studies. Journal of Colloid and Interface Science, 2021, 598, 379-387.	9.4	15
41	Molecular mechanisms for Pb removal by Cyanidiales: a potential biomaterial applied in thermo-acidic conditions. Chemical Engineering Journal, 2020, 401, 125828.	12.7	14
42	Enhanced chlorophenol sorption of soils by rice-straw-ash amendment. Journal of Hazardous Materials, 2010, 177, 692-696.	12.4	13
43	Interactions of the products of oxidative polymerization of hydroquinone as catalyzed by birnessite with Fe (hydr)oxides â€“ an implication of the reactive pathway for humic substance formation. RSC Advances, 2016, 6, 20750-20760.	3.6	13
44	Photo-enhancement of Cr(VI) reduction by fungal biomass of Neurospora crassa. Applied Catalysis B: Environmental, 2009, 92, 294-300.	20.2	12
45	Capacity and recycling of polyoxometalate applied in As(III) oxidation by Fe(II)-Amended zero-valent aluminum. Chemosphere, 2018, 200, 1-7.	8.2	12
46	Influences of preparative methods of humic acids on the sorption of 2,4,6-trichlorophenol. Chemosphere, 2008, 70, 1218-1227.	8.2	11
47	Phosphate Removal in Relation to Structural Development of Humic Acid-Iron Coprecipitates. Scientific Reports, 2018, 8, 10363.	3.3	11
48	Oxidative removal of thallium(I) using Al beverage can waste with amendments of Fe: Tl speciation and removal mechanisms. Chemical Engineering Journal, 2022, 427, 130846.	12.7	10
49	Degradation of antibiotic amoxicillin using 1Ã—1 molecular sieve-structured manganese oxide. Environmental Technology (United Kingdom), 2013, 34, 2443-2451.	2.2	9
50	Molecular Structures of Al/Si and Fe/Si Coprecipitates and the Implication for Selenite Removal. Scientific Reports, 2016, 6, 24716.	3.3	9
51	Physicochemical and biological interfacial interactions: impacts on soil ecosystem and biodiversity. Environmental Earth Sciences, 2013, 68, 2199-2209.	2.7	8
52	Spectroscopic Investigations of the Oxidative Polymerization of Hydroquinone in the Presence of Hexavalent Chromium. Journal of Spectroscopy, 2016, 2016, 1-8.	1.3	8
53	Removal of 2-chlorophenol from water using rice-straw derived ash. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2011, 46, 128-136.	1.5	7
54	Redox reactions between chromium(VI) and hydroquinone: Alternative pathways for polymerization of organic molecules. Environmental Pollution, 2020, 261, 114024.	7.5	7

#	Article	IF	Citations
55	ORGANIC LIGAND-ENHANCED PHOTOCHEMICAL REDUCTION AND IMMOBILIZATION OF CHROMIUM(VI) ON TIO2 PARTICLES IN ACIDIC AQUEOUS MEDIA. Soil Science, 2004, 169, 413-422.	0.9	6
56	Organic fragments newly released from heat-treated peat soils create synergies with dissolved organic carbon to enhance Cr(VI) removal. Ecotoxicology and Environmental Safety, 2020, 201, 110800.	6.0	5
57	Inhibitory effects and mechanisms of low-molecular-mass organic acids (LMMOAs) toward Cr(III) oxidation. Journal of Cleaner Production, 2021, 313, 127726.	9.3	2