

Yu-Jen Shih

List of Publications by Year in descending order

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84
papers

2,414
citations

186209

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243529

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2456
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#	ARTICLE	IF	CITATIONS
1	The electrochemical oxidation of chloride on Pt-Ni-Co-G electrodes and its application in in-situ disinfection of water. <i>Chemical Engineering Journal</i> , 2022, 428, 132069.	6.6	5
2	Bimetallic palladium-tin nanoclusters, PdSn(2 0 0) and PdSn(1 0 1), templated with cationic surfactant for electrochemical denitrification toward N ₂ and NH ₄ ⁺ selectivity. <i>Chemical Engineering Journal</i> , 2022, 433, 133852.	6.6	4
3	Catalytic oxidation and deionization of nitrite and nitrate ions using mesoporous carbon-supported nano-flaky cobalt and nickel oxyhydroxides. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 265-277.	5.0	3
4	Photo-persulfate oxidation and mineralization of benzoic acid: Kinetics and optimization under UVC irradiation. <i>Chemosphere</i> , 2022, 296, 133663.	4.2	9
5	Electrocatalytic Ammonia Oxidation Mediated by Nickel and Copper Crystallites Decorated with Platinum Nanoparticle (PtM/G, M = Cu, Ni). <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5043-5054.	3.2	14
6	Simultaneous recovery of Cu ₂ O and FeOOH from wastewater contaminated with mixed metals using fluidized-bed crystallization. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107357.	3.3	7
7	Enhancing arsenic (III) removal by integrated electrocatalytic oxidation and electrosorption reactions on nano-textured bimetal composite of iron oxyhydroxide and manganese dioxide polymorphs (Î±-, Î²-, Î³-, and Î¼-MnxFe1-xO). <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121757.	10.8	8
8	Electroplating of surfactant-modified tin catalyst over a nickel foam electrode (Sn/Ni) for selective N ₂ yield from nitrate reduction as affected by Sn(200) and Sn(101) crystal facets. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119784.	10.8	24
9	Nickel ferrite nanoenabled graphene oxide (NiFe ₂ O ₄ @GO) as photoactive nanocomposites for water treatment. <i>Environmental Science and Pollution Research</i> , 2021, 28, 5472-5481.	2.7	24
10	Fluidized-bed synthesis of iron-copper bimetallic catalyst (FeIII ₂ CuI@SiO ₂) for mineralization of benzoic acid in blue light-assisted Fenton process. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 119, 60-69.	2.7	5
11	Kinetics and highly selective N ₂ conversion of direct electrochemical ammonia oxidation in an undivided cell using NiCo oxide nanoparticle as the anode and metallic Cu/Ni foam as the cathode. <i>Chemical Engineering Journal</i> , 2021, 409, 128024.	6.6	33
12	Struvite recovery from swine wastewater using fluidized-bed homogeneous granulation process. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105019.	3.3	30
13	Adsorptive removal of dye in wastewater by metal ferrite-enabled graphene oxide nanocomposites. <i>Chemosphere</i> , 2021, 274, 129518.	4.2	52
14	The electrosorption characteristics of simple aqueous ions on loofah-derived activated carbon decorated with manganese dioxide polymorphs: The effect of pseudocapacitance and beyond. <i>Chemical Engineering Journal</i> , 2021, 425, 130606.	6.6	12
15	Applying a Novel Sequential Double-Column Fluidized Bed Crystallization Process to the Recovery of Nitrogen, Phosphorus, and Potassium from Swine Wastewater. <i>ACS ES&T Water</i> , 2021, 1, 707-718.	2.3	9
16	Phosphorus and potassium recovery from human urine using a fluidized bed homogeneous crystallization (FBHC) process. <i>Chemical Engineering Journal</i> , 2020, 384, 123282.	6.6	47
17	Electrochemical nitrate reduction as affected by the crystal morphology and facet of copper nanoparticles supported on nickel foam electrodes (Cu/Ni). <i>Chemical Engineering Journal</i> , 2020, 383, 123157.	6.6	107
18	Loofah-derived activated carbon supported on nickel foam (AC/Ni) electrodes for the electro-sorption of ammonium ion from aqueous solutions. <i>Chemosphere</i> , 2020, 242, 125259.	4.2	22

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19	Electrolytic characteristics of ammonia oxidation in real aquaculture water using nano-textured mono-and bimetal oxide catalysts supported on graphite electrodes. <i>Electrochimica Acta</i> , 2020, 360, 136990.	2.6	17
20	Hazardous wastes treatment technologies. <i>Water Environment Research</i> , 2020, 92, 1833-1860.	1.3	10
21	Recovery of iron(II) and aluminum(III) from acid mine drainage by sequential selective precipitation and fluidized bed homogeneous crystallization (FBHC). <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 115, 135-143.	2.7	25
22	Manipulating the crystalline morphology and facet orientation of copper and copper-palladium nanocatalysts supported on stainless steel mesh with the aid of cationic surfactant to improve the electrochemical reduction of nitrate and N ₂ selectivity. <i>Applied Catalysis B: Environmental</i> , 2020, 273, 119053.	10.8	57
23	Recycling dredged harbor sediment to construction materials by sintering with steel slag and waste glass: Characteristics, alkali-silica reactivity and metals stability. <i>Journal of Environmental Management</i> , 2020, 270, 110869.	3.8	35
24	Detecting phthalate esters in sludge particulates from wastewater treatment plants. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2020, 55, 1233-1240.	0.9	11
25	Nonionic and anionic surfactant-washing of polycyclic aromatic hydrocarbons in estuarine sediments around an industrial harbor in southern Taiwan. <i>Chemosphere</i> , 2020, 256, 127044.	4.2	14
26	Recovery of magnetite from fluidized-bed homogeneous crystallization of iron-containing solution as photocatalyst for Fenton-like degradation of RB5 azo dye under UVA irradiation. <i>Separation and Purification Technology</i> , 2020, 247, 116975.	3.9	20
27	Highly efficient recovery of ruthenium from integrated circuit (IC) manufacturing wastewater by Al reduction and cementation. <i>RSC Advances</i> , 2019, 9, 25303-25308.	1.7	13
28	Hazardous waste treatment technologies. <i>Water Environment Research</i> , 2019, 91, 1177-1198.	1.3	21
29	Electrochemical degradation of oxalic acid over highly reactive nano-textured Fe^{3+} - and Fe^{2+} -MnO ₂ /carbon electrode fabricated by KMnO ₄ reduction on loofah sponge-derived active carbon. <i>Journal of Hazardous Materials</i> , 2019, 379, 120759.	6.5	27
30	Chemical leaching, precipitation and solvent extraction for sequential separation of valuable metals in cathode material of spent lithium ion batteries. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 100, 151-159.	2.7	66
31	Electro-sorption of ammonium ion onto nickel foam supported highly microporous activated carbon prepared from agricultural residues (dried <i>Luffa cylindrica</i>). <i>Science of the Total Environment</i> , 2019, 673, 296-305.	3.9	24
32	Assessment of ex-situ chemical washing of heavy metals from estuarine sediments around an industrial harbor in Southern Taiwan. <i>Journal of Soils and Sediments</i> , 2019, 19, 3108-3122.	1.5	7
33	Electrocoagulation of tetrafluoroborate (BF_4^-) and the derived boron and fluorine using aluminum electrodes. <i>Water Research</i> , 2019, 155, 362-371.	5.3	30
34	Removal of iron as oxyhydroxide (FeOOH) from aqueous solution by fluidized-bed homogeneous crystallization. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 496-502.	2.7	25
35	Characteristics of trichloroethene (TCE) dechlorination in seawater over a granulated zero-valent iron. <i>Chemosphere</i> , 2019, 216, 40-47.	4.2	17
36	Levels and sources of heavy metals in soil, sediment, and food crop in the vicinity of electric arc furnace (EAF) steelmaking plant: a case study from Taiwan. <i>Journal of Soils and Sediments</i> , 2018, 18, 2562-2572.	1.5	5

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37	Electrocatalytic ammonia oxidation over a nickel foam electrode: Role of Ni(OH) ₂ (s)-NiOOH(s) nanocatalysts. <i>Electrochimica Acta</i> , 2018, 263, 261-271.	2.6	126
38	Reclaiming Boron as Calcium Perborate Pellets from Synthetic Wastewater by Integrating Chemical Oxo-Precipitation within a Fluidized-Bed Crystallizer. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4784-4792.	3.2	23
39	In-situ electrochemical formation of nickel oxyhydroxide (NiOOH) on metallic nickel foam electrode for the direct oxidation of ammonia in aqueous solution. <i>Electrochimica Acta</i> , 2018, 281, 410-419.	2.6	66
40	Electrocoagulation of boron by electrochemically co-precipitated spinel ferrites. <i>Chemical Engineering Journal</i> , 2018, 350, 893-901.	6.6	30
41	Recovery of phosphorus from synthetic wastewaters by struvite crystallization in a fluidized-bed reactor: Effects of pH, phosphate concentration and coexisting ions. <i>Chemosphere</i> , 2017, 173, 466-473.	4.2	101
42	Oxidation of ammonia in dilute aqueous solutions over graphite-supported PbO_2 and PbO_2/G electrodes. <i>Electrochimica Acta</i> , 2017, 257, 444-454.	2.6	69
43	Phosphorus recovery as ferrous phosphate (vivianite) from wastewater produced in manufacture of thin film transistor-liquid crystal displays (TFT-LCD) by a fluidized bed crystallizer (FBC). <i>RSC Advances</i> , 2017, 7, 40819-40828.	1.7	58
44	Removal of calcium hardness from solution by fluidized-bed homogeneous crystallization (FBHC) process. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 78, 378-385.	2.7	45
45	Fluidized-bed crystallization of iron phosphate from solution containing phosphorus. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 247-254.	2.7	28
46	Solubility products of sparingly soluble barium perborates in aqueous solution that contains B(OH) ₃ and H ₂ O ₂ at 25 °C. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 703-710.	5.0	8
47	Kinetic study and optimization of electro-Fenton process for dissolution and mineralization of ion exchange resins. <i>Chemical Engineering Journal</i> , 2017, 308, 954-962.	6.6	31
48	Electro-oxidation and characterization of nickel foam electrode for removing boron. <i>Chemosphere</i> , 2017, 166, 184-191.	4.2	22
49	Role of phase transformation of barium perborates in the effective removal of boron from aqueous solution via chemical oxo-precipitation. <i>RSC Advances</i> , 2016, 6, 63206-63213.	1.7	9
50	Adsorption characteristics of nano-TiO ₂ onto zebrafish embryos and its impacts on egg hatching. <i>Chemosphere</i> , 2016, 154, 109-117.	4.2	17
51	Boron removal from boric acid wastewater by electrocoagulation using aluminum as sacrificial anode. <i>Sustainable Environment Research</i> , 2016, 26, 150-155.	2.1	44
52	Recovery of lead from smelting fly ash of waste lead-acid battery by leaching and electrowinning. <i>Waste Management</i> , 2016, 52, 212-220.	3.7	43
53	Reclamation of phosphorus from aqueous solutions as alkaline earth metal phosphate in a fluidized-bed homogeneous crystallization (FBHC) process. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 62, 177-186.	2.7	17
54	The electrodeless preparation of M (M = Pt, Pd, Ru, Cu) NiCo oxide/graphite electrodes for the electrochemical inactivation of <i>Escherichia coli</i> . <i>Sustainable Environment Research</i> , 2016, 26, 1-13.	2.1	6

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55	Precipitation recovery of boron from aqueous solution by chemical oxo-precipitation at room temperature. <i>Applied Energy</i> , 2016, 164, 1052-1058.	5.1	30
56	Treatability assessment of polycyclic aromatic hydrocarbons contaminated marine sediments using permanganate, persulfate and Fenton oxidation processes. <i>Chemosphere</i> , 2016, 150, 294-303.	4.2	51
57	The synthesis, characterization, and application of a platinum modified graphite electrode (Pt/C) exemplified by chloride oxidation. <i>Separation and Purification Technology</i> , 2015, 156, 961-971.	3.9	12
58	Remediation of lead (Pb(II)) wastewater through recovery of lead carbonate in a fluidized-bed homogeneous crystallization (FBHC) system. <i>Chemical Engineering Journal</i> , 2015, 279, 120-128.	6.6	69
59	Granulation for extended-release of nanoscale zero-valent iron exemplified by hexavalent chromium reduction in aqueous solution. <i>Separation and Purification Technology</i> , 2015, 156, 1073-1081.	3.9	13
60	Synthesis of magnetically recoverable ferrite (MFe ₂ O ₄ , M Co, Ni and Fe)-supported TiO ₂ photocatalysts for decolorization of methylene blue. <i>Catalysis Communications</i> , 2015, 72, 127-132.	1.6	47
61	Adsorptive removal of arsenic using a novel akhtenskite coated waste goethite. <i>Journal of Cleaner Production</i> , 2015, 87, 897-905.	4.6	40
62	Potential Chemical Oxo-precipitation (COP) for Remediating Wastewater with a High Boron Concentration using H ₂ O ₂ /Ba(OH) ₂ at Room Temperature. <i>Energy Procedia</i> , 2014, 61, 349-352.	1.8	4
63	Kinetic and thermodynamic studies for adsorptive removal of Sr ²⁺ using waste iron oxide. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 914-920.	2.7	27
64	Mineralization of organic acids by the photo-electrochemical process in the presence of chloride ions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 962-966.	2.7	21
65	A novel chemical oxo-precipitation (COP) process for efficient remediation of boron wastewater at room temperature. <i>Chemosphere</i> , 2014, 111, 232-237.	4.2	38
66	Photoelectro-Fenton mineralization of phenol through optimization of ferrous regeneration. <i>Environmental Science and Pollution Research</i> , 2013, 20, 6184-6190.	2.7	7
67	Mineralization and defluoridation of 2,2,3,3-tetrafluoro-1-propanol (TFP) by UV oxidation in a novel three-phase fluidized bed reactor (3P-FBR). <i>Water Research</i> , 2013, 47, 2325-2330.	5.3	19
68	Novel adsorbent of removal phosphate from TFT LCD wastewater. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 61-66.	2.7	17
69	Application of Fered-Fenton and chemical precipitation process for the treatment of electroless nickel plating wastewater. <i>Separation and Purification Technology</i> , 2013, 104, 100-105.	3.9	76
70	Application of UV/persulfate oxidation process for mineralization of 2,2,3,3-tetrafluoro-1-propanol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 287-290.	2.7	24
71	Mineralization of citric acid wastewater by photo-electrochemical chlorine oxidation. <i>Journal of Environmental Management</i> , 2013, 121, 1-5.	3.8	14
72	SiO ₂ -supported ferromagnetic catalysts for hydrogen generation from alkaline NaBH ₄ (sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	4.5	59

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73	Photo-Fenton Oxidation of Azo Dye Reactive Black B Using an Immobilized Iron Oxide as Heterogeneous Catalyst. <i>Water Environment Research</i> , 2013, 85, 340-345.	1.3	11
74	Electrochemical Oxidation of Carboxylic Acids in the Presence of Manganese Chloride. <i>Journal of the Electrochemical Society</i> , 2013, 160, H681-H686.	1.3	5
75	Reduction and Immobilization of Potassium Permanganate on Iron Oxide Catalyst by Fluidized-Bed Crystallization Technology. <i>Applied Sciences (Switzerland)</i> , 2012, 2, 166-174.	1.3	9
76	Mineralization and defluorization of 2,2,3,3-tetrafluoro-1-propanol (TFP) by UV/persulfate oxidation and sequential adsorption. <i>Chemosphere</i> , 2012, 89, 1262-1266.	4.2	51
77	Left Atrial Appendage Aneurysm with Paroxysmal Atrial Fibrillation. <i>Heart Surgery Forum</i> , 2012, 15, 1.	0.2	4
78	Recovery of nickel with the addition of boric acid using an electrodeposition reactor. <i>Desalination and Water Treatment</i> , 2011, 32, 345-350.	1.0	3
79	A comparative study of phosphate removal technologies using adsorption and fluidized bed crystallization process. <i>Desalination and Water Treatment</i> , 2011, 32, 351-356.	1.0	14
80	Novel KMnO ₄ -modified iron oxide for effective arsenite removal. <i>Journal of Hazardous Materials</i> , 2011, 198, 1-6.	6.5	28
81	Synthesis and characterization of Co/SiO ₂ as catalyst catalyze hydrogen generation. <i>Materials Letters</i> , 2011, 65, 3212-3215.	1.3	12
82	Oxalic acid mineralization by electrochemical oxidation processes. <i>Journal of Hazardous Materials</i> , 2011, 188, 188-192.	6.5	25
83	Adsorption of fluoride by waste iron oxide: The effects of solution pH, major coexisting anions, and adsorbent calcination temperature. <i>Journal of Hazardous Materials</i> , 2011, 186, 1355-1359.	6.5	76
84	Swelling of sericite by LiNO ₃ -hydrothermal treatment. <i>Applied Clay Science</i> , 2009, 43, 282-288.	2.6	26