

Tjoon-Tow Teng

List of Publications by Year in descending order

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107
papers

4,755
citations

94269

37
h-index

106150

65
g-index

107
all docs

107
docs citations

107
times ranked

4679
citing authors

#	ARTICLE	IF	CITATIONS
1	Development, characterization and the application of hybrid materials in coagulation/flocculation of wastewater: A review. <i>Chemical Engineering Journal</i> , 2012, 203, 370-386.	6.6	308
2	Removal of dyes and industrial dye wastes by magnesium chloride. <i>Water Research</i> , 2000, 34, 597-601.	5.3	258
3	Densities and viscosities of aqueous solutions of 1-propanol and 2-propanol at temperatures from 293.15ÅK to 333.15ÅK. <i>Journal of Molecular Liquids</i> , 2007, 136, 71-78.	2.3	253
4	Treatment of pulp and paper mill wastewater by polyacrylamide (PAM) in polymer induced flocculation. <i>Journal of Hazardous Materials</i> , 2006, 135, 378-388.	6.5	220
5	Densities, excess molar volumes, and partial molar volumes for binary mixtures of water with monoethanolamine, diethanolamine, and triethanolamine from 25 to 80i;1/2C. <i>Journal of Solution Chemistry</i> , 1994, 23, 195-205.	0.6	162
6	Coagulation-flocculation of azo dye Acid Orange 7 with green refined laterite soil. <i>Chemical Engineering Journal</i> , 2014, 246, 383-390.	6.6	145
7	Improvement of alum and PACl coagulation by polyacrylamides (PAMs) for the treatment of pulp and paper mill wastewater. <i>Chemical Engineering Journal</i> , 2008, 137, 510-517.	6.6	136
8	Removal of lead, zinc and iron by coagulationâ€“flocculation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2011, 42, 809-815.	2.7	133
9	Degradation of cationic and anionic dyes in coagulationâ€“flocculation process using bi-functionalized silica hybrid with aluminum-ferric as auxiliary agent. <i>RSC Advances</i> , 2015, 5, 34206-34215.	1.7	122
10	Extraction and recovery of methylene blue from industrial wastewater using benzoic acid as an extractant. <i>Journal of Hazardous Materials</i> , 2009, 163, 363-369.	6.5	114
11	Viscosity of Aqueous Solutions of N-Methyldiethanolamine and of Diethanolamine. <i>Journal of Chemical & Engineering Data</i> , 1994, 39, 290-293.	1.0	105
12	Preparation and characterization of coagulation/flocculation behavior of a novel inorganicâ€“organic hybrid polymer for reactive and disperse dyes removal. <i>Chemical Engineering Journal</i> , 2014, 243, 305-314.	6.6	100
13	Combination and hybridisation of treatments in dye wastewater treatment: A review. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 3618-3631.	3.3	98
14	Volumetric properties of (waterâ€“,+â€“,diethanolamine) systems. <i>Canadian Journal of Chemistry</i> , 1995, 73, 1514-1519.	0.6	97
15	Optimization of coagulationâ€“flocculation process for pulp and paper mill effluent by response surface methodological analysis. <i>Journal of Hazardous Materials</i> , 2007, 145, 162-168.	6.5	83
16	Titanium-based nanocomposite materials: A review of recent advances and perspectives. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 121-137.	2.5	83
17	Heavy Metals Removal by Hydroxide Precipitation and Coagulation-Flocculation Methods from Aqueous Solutions. <i>Water Quality Research Journal of Canada</i> , 2009, 44, 174-182.	1.2	81
18	Flocculation activity of novel ferric chlorideâ€“polyacrylamide (FeCl3-PAM) hybrid polymer. <i>Desalination</i> , 2011, 266, 108-113.	4.0	80

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19	Extraction of Cu(II) from aqueous solutions by vegetable oil-based organic solvents. <i>Journal of Hazardous Materials</i> , 2010, 181, 868-872.	6.5	77
20	Volumetric properties of aqueous solutions of monoethanolamine, mono- and dimethylethanolamines at temperatures from 5 to 80 Å°C I. <i>Thermochimica Acta</i> , 2002, 386, 111-118.	1.2	74
21	Extraction and recovery of rhodamine B, methyl violet and methylene blue from industrial wastewater using D2EHPA as an extractant. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 841-846.	2.9	74
22	Bacterial biofloculants: A review of recent advances and perspectives. <i>Chemical Engineering Journal</i> , 2017, 328, 1139-1152.	6.6	74
23	Removal of Cationic Dye by Magnetic Nanoparticle (Fe ₃ O ₄) Impregnated onto Activated Maize Cob Powder and Kinetic Study of Dye Waste Adsorption. <i>APCBEE Procedia</i> , 2012, 1, 83-89.	0.5	73
24	Flocculation of kaolin in water using novel calcium chloride-polyacrylamide (CaCl ₂ -PAM) hybrid polymer. <i>Separation and Purification Technology</i> , 2010, 75, 346-351.	3.9	64
25	Adsorption Studies of Methylene Blue and Malachite Green From Aqueous Solutions by Pretreated Lignocellulosic Materials. <i>Separation Science and Technology</i> , 2013, 48, 1688-1698.	1.3	61
26	A Novel Pretreatment Method of Lignocellulosic Material as Adsorbent and Kinetic Study of Dye Waste Adsorption. <i>Water, Air, and Soil Pollution</i> , 2011, 218, 293-306.	1.1	60
27	Extraction of methyl red from industrial wastewater using xylene as an extractant. <i>Progress in Natural Science: Materials International</i> , 2009, 19, 1215-1220.	1.8	59
28	Efficiency of the Coagulation-Flocculation Method for the Treatment of Dye Mixtures Containing Disperse and Reactive Dye. <i>Water Quality Research Journal of Canada</i> , 2007, 42, 54-62.	1.2	54
29	Solubility of H ₂ S, CO ₂ and their mixtures in an AMP solution. <i>Canadian Journal of Chemical Engineering</i> , 1989, 67, 846-850.	0.9	53
30	Biological kinetics evaluation of anaerobic stabilization pond treatment of palm oil mill effluent. <i>Bioresource Technology</i> , 2009, 100, 4969-4975.	4.8	52
31	Adsorption and Removal of Zinc (II) from Aqueous Solution Using Powdered Fish Bones. <i>APCBEE Procedia</i> , 2012, 1, 96-102.	0.5	52
32	Use of vegetable oil in supported liquid membrane for the transport of Rhodamine B. <i>Desalination</i> , 2009, 249, 1062-1066.	4.0	47
33	Screening of factors influencing Cu(II) extraction by soybean oil-based organic solvents using fractional factorial design. <i>Journal of Environmental Management</i> , 2011, 92, 2580-2585.	3.8	45
34	Comparative study on the effectiveness of hydrophobically modified cationic polyacrylamide groups in the flocculation of kaolin. <i>Desalination</i> , 2011, 270, 206-213.	4.0	45
35	Use of bulk liquid membrane for the removal of chromium (VI) from aqueous acidic solution with tri-n-butyl phosphate as a carrier. <i>Desalination</i> , 2009, 249, 884-890.	4.0	44
36	Design of experiments for Malachite Green dye removal from wastewater using thermolysis “coagulation” flocculation. <i>Desalination and Water Treatment</i> , 2012, 40, 260-271.	1.0	41

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37	Efficiency, stoichiometry and structural studies of Cu(II) removal from aqueous solutions using di-2-ethylhexylphosphoric acid and tributylphosphate diluted in soybean oil. <i>Chemical Engineering Journal</i> , 2011, 166, 249-255.	6.6	39
38	Solubility of carbon dioxide in an AMP solution. <i>Journal of Chemical & Engineering Data</i> , 1990, 35, 410-411.	1.0	38
39	Volumetric properties of aqueous solutions of mono, and diethylethanolamines at temperatures from 5 to 80 °C. <i>Thermochimica Acta</i> , 2002, 386, 119-126.	1.2	38
40	Treatment of Terasil Red R Dye Wastewater using H ₂ O ₂ /pyridine/Cu(II) System. <i>Journal of Hazardous Materials</i> , 2009, 168, 383-389.	6.5	33
41	Selection of design parameters and optimization of operating parameters of soybean oil-based bulk liquid membrane for Cu(II) removal and recovery from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2011, 190, 197-204.	6.5	33
42	Synthesis and Characterization of Hydrophobically Modified Cationic Polyacrylamide with Low Concentration of Cationic Monomer. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2009, 46, 240-249.	1.2	32
43	Optimization of the Adsorption Conditions for the Decolorization and COD Reduction of Methylene Blue Aqueous Solution using Low-Cost Adsorbent. <i>Water, Air, and Soil Pollution</i> , 2011, 214, 185-195.	1.1	32
44	Water activity data representation of aqueous solutions at 25 °C. <i>Canadian Journal of Chemical Engineering</i> , 1974, 52, 387-391.	0.9	31
45	Adsorption of Cadmium Ions from Aqueous Solution Using Granular Activated Carbon and Activated Clay. <i>Clean - Soil, Air, Water</i> , 2010, 38, 649-656.	0.7	31
46	Optimization of nickel removal using liquid-liquid extraction and response surface methodology. <i>Desalination and Water Treatment</i> , 2012, 47, 334-340.	1.0	30
47	Sonocatalytic Degradation of Rhodamine B in Aqueous Solution in the Presence of TiO ₂ Coated Activated Carbon. <i>APCBEE Procedia</i> , 2012, 1, 110-115.	0.5	30
48	Synthesis and Characterization of Hydrophobically Modified Cationic Acrylamide Copolymer. <i>International Journal of Polymer Analysis and Characterization</i> , 2008, 13, 95-107.	0.9	28
49	Chemical Oxygen Demand (COD) reduction of a reactive dye wastewater using H ₂ O ₂ /pyridine/Cu (II) system. <i>Desalination</i> , 2011, 278, 26-30.	4.0	27
50	Cu(II) transport through soybean oil-based bulk liquid membrane: Kinetic study. <i>Chemical Engineering Journal</i> , 2011, 173, 352-360.	6.6	26
51	Production of Biofloculant by <i>Staphylococcus cohnii</i> ssp. from Palm Oil Mill Effluent (POME). <i>Water, Air, and Soil Pollution</i> , 2012, 223, 3775-3781.	1.1	25
52	Studies on the Adsorption of Methylene Blue Dye from Aqueous Solution onto Low-Cost Tartaric Acid Treated Bagasse. <i>APCBEE Procedia</i> , 2012, 1, 103-109.	0.5	25
53	Molal volumes of sucrose in aqueous solutions of NaCl, KCl, or urea at 25½C. <i>Journal of Solution Chemistry</i> , 1976, 5, 575-585.	0.6	24
54	Methylene Blue Degradation by <i>Sphingomonas paucimobilis</i> under Aerobic Conditions. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 5131-5142.	1.1	23

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55	Chemical Modification of Imperata cylindrica Leaf Powder for Heavy Metal Ion Adsorption. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	23
56	Anaerobic Acidogenesis Biodegradation of Palm Oil Mill Effluent Using Suspended Closed Anaerobic Bioreactor (SCABR) at Mesophilic Temperature. Procedia Environmental Sciences, 2013, 18, 433-441.	1.3	23
57	Density prediction of multicomponent aqueous solutions from binary data. Canadian Journal of Chemical Engineering, 1975, 53, 673-676.	0.9	21
58	A comparative study for the characterization of polyaniline based nanocomposites and membrane properties. RSC Advances, 2014, 4, 20686-20692.	1.7	21
59	The Water-activity of Supersaturated Aqueous Solutions of NaCl, KCl, and K ₂ SO ₄ at 25°C. Canadian Journal of Chemistry, 1975, 53, 3133-3140.	0.6	20
60	Optimization of Cu(II) Extraction from Aqueous Solutions by Soybean-Oil-Based Organic Solvent Using Response Surface Methodology. Water, Air, and Soil Pollution, 2011, 217, 567-576.	1.1	19
61	Suspended growth kinetic analysis on biogas generation from newly isolated anaerobic bacterial communities for palm oil mill effluent at mesophilic temperature. RSC Advances, 2014, 4, 64659-64667.	1.7	18
62	Methane gas production from palm oil wastewater—An anaerobic methanogenic degradation process in continuous stirrer suspended closed anaerobic reactor. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 896-900.	2.7	18
63	Thermal behavior and morphological properties of novel magnesium salt—polyacrylamide composite polymers. Polymer Composites, 2011, 32, 1515-1522.	2.3	17
64	Factorial Experimental Design for Reactive Dye Flocculation Using Inorganic-Organic Composite Polymer. APCBEE Procedia, 2012, 1, 59-65.	0.5	17
65	Start-up Operation of Anaerobic Degradation Process for Palm Oil Mill Effluent in Anaerobic Bench Scale Reactor (ABSR). Procedia Environmental Sciences, 2013, 18, 442-450.	1.3	17
66	Imperata cylindrica (Cogongrass) as an Adsorbent for Methylene Blue Dye Removal: Process Optimization. Water, Air, and Soil Pollution, 2014, 225, 1.	1.1	17
67	Carbonization of Elaeis guineensis frond fiber: Effect of heating rate and nitrogen gas flow rate for adsorbent properties enhancement. Journal of Industrial and Engineering Chemistry, 2015, 28, 37-44.	2.9	17
68	Effect of calcium ions on the density of lecithin and its effective molecular volume in lecithin—water dispersions. Chemistry and Physics of Lipids, 2008, 151, 1-9.	1.5	16
69	Solvent extraction of methyl violet with salicylic acid from aqueous acidic solutions. Desalination, 2010, 263, 113-117.	4.0	16
70	Nickel ion coupled counter complexation and decomplexation through a modified supported liquid membrane system. RSC Advances, 2015, 5, 38424-38434.	1.7	16
71	Methanesulfonic and trichloroacetic acids. Densities of aqueous solutions at 20.deg., 25.deg., and 35.deg.. Journal of Chemical & Engineering Data, 1975, 20, 432-434.	1.0	15
72	Transport of cationic dye by supported liquid membrane using D2EHPA as the carrier. Coloration Technology, 2010, 126, 97-102.	0.7	15

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73	Fenton oxidation of carpet dyeing wastewater for removal of COD and color. <i>Desalination and Water Treatment</i> , 2011, 28, 260-264.	1.0	15
74	Physicochemical and Rheological Properties of Novel Magnesium Salt-Polyacrylamide Composite Polymers. <i>Journal of Dispersion Science and Technology</i> , 2012, 33, 1284-1291.	1.3	13
75	Biosorption of Pb(II) and Fe(III) from Aqueous Solutions Using Oil Palm Biomasses as Adsorbents. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	13
76	Optimization of COD, apparent color, and turbidity reductions of landfill leachate by Fenton reagent. <i>Desalination and Water Treatment</i> , 2014, 52, 1524-1530.	1.0	13
77	Reactive Dye Removal Using Inorganic-Organic Composite Material: Kinetics, Mechanism, and Optimization. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 1557-1570.	1.3	12
78	Synthesis of magnetic nanocomposites (AMMC-Fe ₃ O ₄) for cationic dye removal: Optimization, kinetic, isotherm, and thermodynamics analysis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 54, 96-108.	2.7	12
79	Vapour pressures of CaCl ₂ -NaCl-H ₂ O and MgCl ₂ -NaCl-H ₂ O at 25 °C. Prediction of the water activity of supersaturated NaCl solutions. <i>Canadian Journal of Chemistry</i> , 1978, 56, 1853-1855.	0.6	11
80	Solubility of acid gases in chemical and mixed solvents. <i>Separation and Purification Technology</i> , 1991, 5, 29-34.	0.3	11
81	Removal of Dyes and Pigments from Industrial Effluents. , 2012, , 65-93.		11
82	Characterization and sorption behavior of natural adsorbent for exclusion of chromium ions from industrial effluents. <i>Desalination and Water Treatment</i> , 0, , 1-9.	1.0	11
83	Adsorption of Rhodamine B Dye on <i>Elaeis guineensis</i> Frond Fiber. <i>Separation Science and Technology</i> , 2014, 49, 1104-1118.	1.3	11
84	Recovery of dye from textile effluents using phenol as an extractant. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1958-1964.	2.9	11
85	Liquid-liquid extraction of Cibacron Red FN-R by TBAB as an extractant. <i>Desalination</i> , 2012, 284, 135-141.	4.0	10
86	Optimization of the column studies into the adsorption of basic dye using tartaric acid-treated bagasse. <i>Desalination and Water Treatment</i> , 2014, 52, 6194-6205.	1.0	10
87	Application of acid-modified <i>Imperata cylindrica</i> powder for latent fingerprint development. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2015, 55, 347-354.	1.3	10
88	Measurement and prediction of the density of aqueous ternary mixtures of methyldiethanolamine and diethanolamine at temperatures from 25 °C to 80 °C. <i>Canadian Journal of Chemical Engineering</i> , 1994, 72, 125-129.	0.9	9
89	Measurement and Prediction of the Density of Aqueous Multicomponent Solutions Involving Polyethylene Glycol 2000. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 40-44.	0.3	8
90	Biosorption of Pb(ii) and Fe(iii) from aqueous co-solutions using chemically pretreated oil palm fronds. <i>RSC Advances</i> , 2015, 5, 106498-106508.	1.7	8

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91	Kinetics and In Situ Rheological Behavior of Acrylamide Redox Polymerization. Journal of Dispersion Science and Technology, 2012, 33, 387-395.	1.3	7
92	Long-Term Prediction of Biological Wastewater Treatment Process Behavior via Wiener-Laguerre Network Model. International Journal of Chemical Engineering, 2014, 2014, 1-7.	1.4	7
93	Additivity rules for the prediction of the density of aqueous solutions containing mixed-type solutes. Canadian Journal of Chemical Engineering, 1976, 54, 600-605.	0.9	6
94	Catalytic thermolysis in treating Cibacron Blue in aqueous solution: Kinetics and degradation pathway. Chemosphere, 2016, 146, 503-510.	4.2	6
95	Additivity rules for the prediction of the density of aqueous solutions containing mixed-type solutes. Canadian Journal of Chemical Engineering, 1976, 54, 600-605.	0.9	4
96	Density Prediction for Aqueous Multicomponent Solutions Obeying Isopiestic Relation and Isopycnotic Mixing Rule. Journal of Solution Chemistry, 2003, 32, 765-780.	0.6	4
97	Treatment of Terasil Red R and Cibacron Red R wastewater using extracted aluminum from red earth: Factorial design. Journal of Environmental Management, 2013, 122, 121-129.	3.8	4
98	Kinetic removal of Cr ⁶⁺ by carboxymethyl cellulose-stabilized nano zerovalent iron particles. Macedonian Journal of Chemistry and Chemical Engineering, 2015, 34, 295.	0.2	4
99	Effects of Different Conditions on the Removal of Dye from Reactive Dye Wastewater Using Inorganic-Organic Composite Polymer. International Journal of Environmental Science and Development, 0, , 1-4.	0.2	4
100	Effects of cationization hybridized biopolymer from <i>Bacillus subtilis</i> on flocculating properties. Desalination and Water Treatment, 2016, 57, 16086-16095.	1.0	3
101	Evaluation of factors and kinetics study of polyacrylamide redox polymerization using statistical design modeling. Journal of Polymer Engineering, 2012, 32, 215-224.	0.6	2
102	Screening of Factors Influencing the Adsorption of Methylene Blue Aqueous Solution onto Raw Maize Cobs Using Fractional Factorial Design. Journal of Dispersion Science and Technology, 2012, 33, 1730-1738.	1.3	2
103	Coagulation-Flocculation Method for the Treatment of Pulp and Paper Mill Wastewater. , 2014, , 239-259.		2
104	Viscometric and Morphological Properties of Novel Magnesium Electrolyte-Polyacrylamide Composite Polymers in Aqueous Solution. Journal of Solution Chemistry, 2013, 42, 27-43.	0.6	1
105	Start-Up Operation and Hydraulic Retention Time Selectivity for Palm Oil Mill Wastewater at Mesophilic Temperature in Anaerobic Suspended Growth Closed Bioreactor. Advanced Materials Research, 0, 955-959, 1330-1334.	0.3	1
106	Intermolecular degradation of aromatic compound and its derivatives via combined sequential and hybridized process. Bioprocess and Biosystems Engineering, 2023, 46, 359-371.	1.7	1
107	Optimal conditions of Al and Fe extraction from laterite soil using D-optimal design. The Environmentalist, 2012, 32, 453-463.	0.7	0