

Erhan Demirbas

List of Publications by Year in descending order

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89
papers

5,272
citations

101496

36
h-index

88593

70
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all docs

89
docs citations

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times ranked

4656
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of vegetable based cutting fluids with extreme pressure and cutting parameters in turning of AISI 304L by Taguchi method. <i>Journal of Cleaner Production</i> , 2011, 19, 2049-2056.	4.6	281
2	Adsorption of reactive dyes from aqueous solutions by fly ash: Kinetic and equilibrium studies. <i>Journal of Hazardous Materials</i> , 2008, 150, 737-746.	6.5	270
3	Treatment of potato chips manufacturing wastewater by electrocoagulation. <i>Desalination</i> , 2006, 190, 201-211.	4.0	266
4	Treatment of levafix orange textile dye solution by electrocoagulation. <i>Journal of Hazardous Materials</i> , 2006, 132, 183-188.	6.5	216
5	Optimization of cutting fluids and cutting parameters during end milling by using D-optimal design of experiments. <i>Journal of Cleaner Production</i> , 2013, 42, 159-166.	4.6	198
6	Removal of arsenic from drinking water by the electrocoagulation using Fe and Al electrodes. <i>Electrochimica Acta</i> , 2011, 56, 5060-5070.	2.6	185
7	Fabrication of NiFe layered double hydroxide/reduced graphene oxide (NiFe-LDH/rGO) nanocomposite with enhanced sonophotocatalytic activity for the degradation of moxifloxacin. <i>Chemical Engineering Journal</i> , 2019, 375, 122102.	6.6	175
8	A comparative study of chemical precipitation and electrocoagulation for treatment of coal acid drainage wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 989-995.	3.3	167
9	Experimental investigations of vegetable based cutting fluids with extreme pressure during turning of AISI 304L. <i>Tribology International</i> , 2011, 44, 1864-1871.	3.0	158
10	Treatment of potable water containing low concentration of arsenic with electrocoagulation: Different connection modes and Fe-Al electrodes. <i>Separation and Purification Technology</i> , 2011, 77, 283-293.	3.9	152
11	The adsorption of basic dye (Astrazon Blue FGRL) from aqueous solutions onto sepiolite, fly ash and apricot shell activated carbon: Kinetic and equilibrium studies. <i>Journal of Hazardous Materials</i> , 2007, 147, 297-306.	6.5	141
12	Operating parameters and costs assessments of a real dyehouse wastewater effluent treated by a continuous electrocoagulation process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 101, 87-100.	1.8	138
13	Operating cost and treatment of metalworking fluid wastewater by chemical coagulation and electrocoagulation processes. <i>Chemical Engineering Research and Design</i> , 2017, 105, 79-90.	2.7	133
14	Treatment of rinse water from zinc phosphate coating by batch and continuous electrocoagulation processes. <i>Journal of Hazardous Materials</i> , 2010, 173, 326-334.	6.5	132
15	Optimization of baker's yeast wastewater using response surface methodology by electrocoagulation. <i>Desalination</i> , 2012, 286, 200-209.	4.0	130
16	Adsorption of Cobalt(II) Ions from Aqueous Solution onto Activated Carbon Prepared from Hazelnut Shells. <i>Adsorption Science and Technology</i> , 2003, 21, 951-963.	1.5	115
17	Influence of injection parameters and mold materials on mechanical properties of ABS in plastic injection molding. <i>International Communications in Heat and Mass Transfer</i> , 2010, 37, 1359-1365.	2.9	115
18	Batch kinetic and equilibrium studies of adsorption of Reactive Blue 21 by fly ash and sepiolite. <i>Desalination</i> , 2009, 243, 8-21.	4.0	113

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19	Error analysis of equilibrium studies for the almond shell activated carbon adsorption of Cr(VI) from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2008, 154, 787-794.	6.5	112
20	Degradation of diazinon pesticide using catalyzed persulfate with Fe ₃ O ₄ @MOF-2 nanocomposite under ultrasound irradiation. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 280-290.	2.9	102
21	A comparative study of electrocoagulation and electro-Fenton for treatment of wastewater from liquid organic fertilizer plant. <i>Separation and Purification Technology</i> , 2013, 112, 11-19.	3.9	99
22	Modeling the effects of adsorbent dose and particle size on the adsorption of reactive textile dyes by fly ash. <i>Desalination</i> , 2007, 212, 282-293.	4.0	98
23	Evaluations of operating parameters on treatment of can manufacturing wastewater by electrocoagulation. <i>Journal of Water Process Engineering</i> , 2015, 8, 64-74.	2.6	77
24	Treatment of cadmium and nickel electroplating rinse water by electrocoagulation. <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 1471-1481.	1.2	74
25	Environmentally Friendly Machining: Vegetable Based Cutting Fluids. <i>Materials Forming, Machining and Tribology</i> , 2013, , 23-47.	0.7	63
26	Evaluation of New Vegetable-Based Cutting Fluids on Thrust Force and Surface Roughness in Drilling of AISI 304 Using Taguchi Method. <i>Materials and Manufacturing Processes</i> , 2011, 26, 1136-1146.	2.7	61
27	Ultrasensitive detection of rutin antioxidant through a magnetic micro-mesoporous graphitized carbon wrapped Co nanoarchitecture. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127939.	4.0	60
28	Evaluation of operating parameters with respect to charge loading on the removal efficiency of arsenic from potable water by electrocoagulation. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1484-1494.	3.3	57
29	An electrochemical sensor for detection of trace-level endocrine disruptor bisphenol A using Mo ₂ Ti ₂ AlC ₃ MAX phase/MWCNT composite modified electrode. <i>Environmental Research</i> , 2022, 212, 113071.	3.7	55
30	Arsenic removal from groundwater of Sivas-ÅžarkiaÅŸla Plain, Turkey by electrocoagulation process: Comparing with iron plate and ball electrodes. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1096-1106.	3.3	53
31	Electrochemical treatment and operating cost analysis of textile wastewater using sacrificial iron electrodes. <i>Water Science and Technology</i> , 2009, 60, 2261-2270.	1.2	52
32	Treatment of textile dyeing wastewater by electrocoagulation using Fe and Al electrodes: optimisation of operating parameters using central composite design. <i>Coloration Technology</i> , 2014, 130, 226-235.	0.7	43
33	A new perspective for electrochemical determination of parathion and chlorantraniliprole pesticides via carbon nanotube-based thiophene-ferrocene appended hybrid nanosensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130344.	4.0	42
34	Removal of thiocyanate from aqueous solutions by ion exchange. <i>Journal of Hazardous Materials</i> , 2009, 166, 1367-1376.	6.5	40
35	Fluorescence determination of trace level of cadmium with pyrene modified nanocrystalline cellulose in food and soil samples. <i>Food and Chemical Toxicology</i> , 2020, 146, 111847.	1.8	39
36	3D SWCNTs-coumarin hybrid material for ultra-sensitive determination of quercetin antioxidant capacity. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 165-173.	4.0	38

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37	Direct and Fast Electrochemical Determination of Catechin in Tea Extracts using SWCNT-Subphthalocyanine Hybrid Material. <i>Electroanalysis</i> , 2019, 31, 1697-1707.	1.5	37
38	Optimization of arsenic removal from drinking water by electrocoagulation batch process using response surface methodology. <i>Desalination and Water Treatment</i> , 2013, 51, 6676-6687.	1.0	36
39	Treatments of alkaline non-cyanide, alkaline cyanide and acidic zinc electroplating wastewaters by electrocoagulation. <i>Chemical Engineering Research and Design</i> , 2017, 105, 373-385.	2.7	35
40	High performance ternary solar cells based on P3HT:PCBM and ZnPc-hybrids. <i>RSC Advances</i> , 2016, 6, 93453-93462.	1.7	33
41	Novel pyrene-BODIPY dyes based on cyclotriphosphazene scaffolds: Synthesis, photophysical and spectroelectrochemical properties. <i>Inorganica Chimica Acta</i> , 2019, 494, 132-140.	1.2	33
42	Preparation of single walled carbon nanotube-pyrene 3D hybrid nanomaterial and its sensor response to ammonia. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 853-860.	4.0	32
43	Highly selective and ultra-sensitive electrochemical sensor behavior of 3D SWCNT-BODIPY hybrid material for eserine detection. <i>Biosensors and Bioelectronics</i> , 2019, 128, 144-150.	5.3	31
44	Optimization of surface roughness in drilling using vegetable-based cutting oils developed from sunflower oil. <i>Industrial Lubrication and Tribology</i> , 2011, 63, 271-276.	0.6	29
45	Synthesis of a series of triple-bridged cyclotriphosphazene hexa-alkoxy derivatives and investigation of their structural and mesomorphic properties. <i>Liquid Crystals</i> , 2013, 40, 624-631.	0.9	28
46	Effect of covalent and non-covalent linking of zinc(II) phthalocyanine functionalised carbon nanomaterials on the sensor response to ammonia. <i>Synthetic Metals</i> , 2017, 227, 78-86.	2.1	28
47	A synergetic and sensitive physostigmine pesticide sensor using copper complex of 3D zinc (II) phthalocyanine-SWCNT hybrid material. <i>Biosensors and Bioelectronics</i> , 2021, 174, 112819.	5.3	28
48	Synthesis and organic solar cell performance of BODIPY and coumarin functionalized SWCNTs or graphene oxide nanomaterials. <i>Dalton Transactions</i> , 2018, 47, 9617-9626.	1.6	27
49	Effect of different SWCNT-BODIPY hybrid materials for selective and sensitive electrochemical detection of guanine and adenine. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 10-20.	1.9	27
50	Arsenite removal from groundwater in a batch electrocoagulation process: Optimization through response surface methodology. <i>Separation Science and Technology</i> , 2019, 54, 775-785.	1.3	27
51	Sensitive, simple and fast voltammetric determination of pesticides in juice samples by novel BODIPY-phthalocyanine-SWCNT hybrid platform. <i>Food and Chemical Toxicology</i> , 2021, 147, 111886.	1.8	26
52	Novel SWCNT-hybrid nanomaterial functionalized with subphthalocyanine substituted asymmetrical zinc (II) phthalocyanine conjugate: Design, synthesis, characterization and sensor properties for pesticides. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129198.	4.0	26
53	Effect of covalent and non-covalent linking on the structure, optical and electrical properties of novel zinc(II) phthalocyanine functionalized carbon nanomaterials. <i>Polyhedron</i> , 2016, 110, 37-45.	1.0	25
54	Arsenite and arsenate removals from groundwater by electrocoagulation using iron ball anodes: Influence of operating parameters. <i>Journal of Water Process Engineering</i> , 2017, 18, 83-91.	2.6	25

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55	Effects of blended vegetable-based cutting fluids with extreme pressure on tool wear and force components in turning of Al 7075-T6. <i>Lubrication Science</i> , 2013, 25, 39-52.	0.9	24
56	Combined effects of co-existing anions on the removal of arsenic from groundwater by electrocoagulation process: Optimization through response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3792-3802.	3.3	24
57	A hybrid nanosensor based on novel fluorescent iron oxide nanoparticles for highly selective determination of Hg ²⁺ ions in environmental samples. <i>New Journal of Chemistry</i> , 2021, 45, 14495-14507.	1.4	24
58	Effects of vegetable-based cutting fluids on the wear in drilling. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2013, 38, 687-706.	0.8	23
59	A facile and synergetic strategy for electrochemical sensing of rutin antioxidant by Ce-Cr doped magnetite@rGO. <i>Materials Chemistry and Physics</i> , 2022, 275, 125298.	2.0	23
60	Ultrasensitive electrochemical sensor for detection of rutin antioxidant by layered Ti ₃ Al _{0.5} Cu _{0.5} C ₂ MAX phase. <i>Food and Chemical Toxicology</i> , 2022, 164, 113016.	1.8	23
61	Effect of operational parameters on the removal of phenol from aqueous solutions by electrocoagulation using Fe and Al electrodes. <i>Desalination and Water Treatment</i> , 2012, 46, 366-374.	1.0	22
62	A Hybrid Nanomaterial Based on Single Walled Carbon Nanotubes Cross-Linked via Axially Substituted Silicon (IV) Phthalocyanine for Chemiresistive Sensors. <i>Molecules</i> , 2020, 25, 2073.	1.7	22
63	The application of electrocoagulation process for treatment of the red mud dam wastewater from Bayer's process. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 2211-2220.	3.3	21
64	Treatment of Cr, Ni and Zn from galvanic rinsing wastewater by electrocoagulation process using iron electrodes. <i>Desalination and Water Treatment</i> , 2015, 56, 1191-1201.	1.0	21
65	Electrochemical treatment of Baker's yeast wastewater containing melanoidin: optimization through response surface methodology. <i>Water Science and Technology</i> , 2012, 65, 2183-2190.	1.2	18
66	Ammonia sensing performance of thin films of cobalt(II) phthalocyanine bearing fluorinated substituents. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 7543-7551.	1.1	18
67	Removal of As(V) from groundwater by a new electrocoagulation reactor using Fe ball anodes: optimization of operating parameters. <i>Desalination and Water Treatment</i> , 2015, 56, 1177-1190.	1.0	17
68	Cyanide ions transport from aqueous solutions by using quaternary ammonium salts through bulk liquid membranes. <i>Desalination</i> , 2005, 180, 139-150.	4.0	16
69	Decolorisation of aqueous reactive dye Remazol Red 3B by electrocoagulation. <i>Coloration Technology</i> , 2010, 126, 282-288.	0.7	16
70	Electrochemical Evaluation of the Total Antioxidant Capacity of Yam Food Samples on a Polyglycine-Glassy Carbon Modified Electrode. <i>Current Analytical Chemistry</i> , 2020, 16, 176-183.	0.6	16
71	3D, covalent and noncovalent hybrid materials based on 3-phenylcoumarin derivatives and single walled carbon nanotubes as gas sensing layers. <i>Applied Surface Science</i> , 2020, 504, 144276.	3.1	15
72	Coumarin bearing asymmetrical zinc(II) phthalocyanine functionalized SWCNT hybrid nanomaterial: Synthesis, characterization and investigation of bifunctional electrocatalyst behavior for water splitting. <i>Journal of Electroanalytical Chemistry</i> , 2021, 897, 115552.	1.9	15

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73	The effect of extreme pressure added vegetable based cutting fluids on cutting performance in milling. <i>Industrial Lubrication and Tribology</i> , 2013, 65, 181-193.	0.6	14
74	Performance analysis of developed vegetable-based cutting fluids by D-optimal experimental design in turning process. <i>International Journal of Computer Integrated Manufacturing</i> , 2012, 25, 1165-1181.	2.9	12
75	Investigation of electrochemical properties and gas adsorption studies of novel sandwich core phthalocyanines. <i>Journal of Physical Organic Chemistry</i> , 2019, 32, e3907.	0.9	12
76	Core-shell Hierarchical Enzymatic Biosensor Based on Hyaluronic Acid Capped Copper Ferrite Nanoparticles for Determination of Endocrine-disrupting Bisphenol A. <i>Electroanalysis</i> , 2022, 34, 561-572.	1.5	12
77	Modelling the Effects of Adsorbent Dose and Particle Size on the Adsorption of Cr(VI) Ions from Aqueous Solutions. <i>Adsorption Science and Technology</i> , 2004, 22, 583-594.	1.5	11
78	The Simultaneously Voltammetric Determination of Spinosad and Chlorantraniliprole Pesticides by Carbazole-Ferrocene Functionalized Carbon Nanotube Architecture. <i>Journal of the Electrochemical Society</i> , 2021, 168, 087513.	1.3	11
79	Removal of arsenate by electrocoagulation reactor using aluminum ball anode electrodes. <i>Water Practice and Technology</i> , 2018, 13, 753-763.	1.0	10
80	Adsorption Kinetics for the Removal of Nitrite Ions from Aqueous Solutions by an Ion-Exchange Resin. <i>Adsorption Science and Technology</i> , 2006, 24, 131-142.	1.5	8
81	BODIPY substituted zinc(II) phthalocyanine and its bulk heterojunction application in solar cells. <i>Journal of Porphyrins and Phthalocyanines</i> , 2019, 23, 1132-1143.	0.4	8
82	Effect of carrier type on coupled transport kinetics of thiocyanate ions through liquid membranes. <i>Desalination</i> , 2004, 160, 253-262.	4.0	7
83	Non-steady-state kinetic analysis of coupled transport of thiocyanate ions through binary liquid membranes. <i>Desalination</i> , 2005, 175, 237-246.	4.0	7
84	Phthalocyanine-nanocarbon materials and their composites: Preparation, properties, and applications. , 2019, , 677-709.		6
85	Treatment of phenol formaldehyde production wastewater by electrooxidation-electrofenton successive processes. <i>Separation Science and Technology</i> , 2020, 55, 2830-2843.	1.3	6
86	Detection of Volatile Organic Compounds in Aqueous Solutions by Phthalocyanine Coated Quartz Crystal Microbalance. <i>Sensor Letters</i> , 2006, 4, 446-451.	0.4	3
87	OPTIMIZATION OF SOME CATIONS FOR REMOVAL OF ARSENIC FROM GROUNDWATER BY ELECTROCOAGULATION PROCESS. <i>Environmental Engineering and Management Journal</i> , 2018, 17, 1079-1093.	0.2	2
88	Coherent anti-stokes Raman spectroscopy studies of vapour phase niobium pentachloride. <i>Vibrational Spectroscopy</i> , 2005, 37, 141-144.	1.2	1
89	Determination of Heavy Metal Ions in Aqueous Solutions by Phthalocyanine Coated Quartz Crystal Microbalance. <i>Sensor Letters</i> , 2006, 4, 312-318.	0.4	1