Subramanyan Vasudevan

List of Publications by Citations

95 papers	3,506 citations	38 h-index	57 g-index
96 ext. papers	3,908 ext. citations	4.5 avg, IF	5.89 L-index

#	Paper	IF	Citations
95	Electrochemistry: as cause and cure in water pollution□n overview. *Environmental Chemistry Letters*, **2014**, 12, 97-108	13.3	245
94	Adsorption kinetics, isotherms, and thermodynamic studies for Hg2+ adsorption from aqueous medium using alizarin red-S-loaded amberlite IRA-400 resin. *Desalination and Water Treatment*, **2016**, 57, 18551-18559		168
93	The adsorption of phosphate by graphene from aqueous solution. *RSC Advances*, **2012**, 2, 5234	3.7	160
92	OPAC (orange peel activated carbon) derived from waste orange peel for the adsorption of chlorophenoxyacetic acid herbicides from water: Adsorption isotherm, kinetic modelling and thermodynamic studies. *Bioresource Technology*, **2018**, 261, 329-341	11	115
91	Remediation of phosphate-contaminated water by electrocoagulation with aluminium, aluminium alloy and mild steel anodes. *Journal of Hazardous Materials*, **2009**, 164, 1480-6	12.8	106
90	Application of isotherm, kinetic and thermodynamic models for the adsorption of nitrate ions on graphene from aqueous solution. *Journal of the Taiwan Institute of Chemical Engineers*, **2013**, 44, 808-814	5.3	104
89	Effects of alternating and direct current in electrocoagulation process on the removal of cadmium from water. *Journal of Hazardous Materials*, **2011**, 192, 26-34	12.8	89
88	Effects of alternating and direct current in electrocoagulation process on the removal of fluoride from water. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 428-436	3.5	84
87	Studies on the Removal of Phosphate from Drinking Water by Electrocoagulation Process. *Industrial & Engineering Chemistry Research*, **2008**, 47, 2018-2023	3.9	82
86	Kinetics, thermodynamics and isotherm modeling for removal of nitrate from liquids by facile one-pot electrosynthesized nano zinc hydroxide. *Journal of Molecular Liquids*, **2016**, 215, 204-211	6	77
85	Studies on the Al□Zn□In-alloy as anode material for the removal of chromium from drinking water in electrocoagulation process. *Desalination*, **2011**, 275, 260-268	10.3	74
84	Evaluation of electrocoagulation process for the removal of strontium and cesium from aqueous solution. *Chemical Engineering Research and Design*, **2015**, 93, 522-530	5.5	72
83	Effects of alternating and direct current in electrocoagulation process on the removal of cadmium from water □A novel approach. *Separation and Purification Technology*, **2011**, 80, 643-651	8.3	68
82	Nitrate reduction in water: influence of the addition of a second metal on the performances of the Pd/CeO(2) catalyst. *Journal of Hazardous Materials*, **2011**, 185, 1412-7	12.8	66
81	Graphene and Graphene-Based Composites: A Rising Star in Water Purification - A Comprehensive Overview. *ChemistrySelect*, **2016**, 1, 4358-4385	1.8	61
80	Removal of copper from water by electrocoagulation process--effect of alternating current (AC) and direct current (DC). *Environmental Science and Pollution Research*, **2013**, 20, 399-412	5.1	61
79	Electrochemical removal of boron from water: Adsorption and thermodynamic studies. *Canadian Journal of Chemical Engineering*, **2012**, 90, 1017-1026	2.3	57

78	Electrochemically assisted coagulation for the removal of boron from water using zinc anode. *Desalination*, **2013**, 310, 122-129	10.3	57
77	Studies on a Mg-Al-Zn Alloy as an Anode for the Removal of Fluoride from Drinking Water in an Electrocoagulation Process. *Clean - Soil, Air, Water*, **2009**, 37, 372-378	1.6	56
76	Studies on the Removal of Iron from Drinking Water by Electrocoagulation □A Clean Process. *Clean - Soil, Air, Water*, **2009**, 37, 45-51	1.6	53
75	Optimization of electrocoagulation process for the simultaneous removal of mercury, lead, and nickel from contaminated water. *Environmental Science and Pollution Research*, **2011**, 19, 2734-44	5.1	52
74	Adsorption of herbicide 2-(2,4-dichlorophenoxy)propanoic acid by electrochemically generated aluminum hydroxides: an alternative to chemical dosing. *RSC Advances*, **2015**, 5, 39799-39809	3.7	51
73	Eco-friendly and facile integrated biological-cum-photo assisted electrooxidation process for degradation of textile wastewater. *Water Research*, **2016**, 93, 230-241	12.5	50
72	Electrochemical Coagulation for Chromium Removal: Process Optimization, Kinetics, Isotherms and Sludge Characterization. *Clean - Soil, Air, Water*, **2010**, 38, 9-16	1.6	50
71	Removal of NO3□From Drinking Water by Electrocoagulation □An Alternate Approach. *Clean - Soil, Air, Water*, **2010**, 38, 225-229	1.6	50
70	Graphene-a promising material for removal of perchlorate (ClO4-) from water. *Environmental Science and Pollution Research*, **2013**, 20, 5114-24	5.1	49
69	Removal of iron from drinking water by electrocoagulation: Adsorption and kinetics studies. *Korean Journal of Chemical Engineering*, **2009**, 26, 1058-1064	2.8	49
68	An alternative approach to selective sea water oxidation for hydrogen production. *Electrochemistry Communications*, **2009**, 11, 1700-1702	5.1	49
67	Removal of lead from aqueous solutions by electrocoagulation: isotherm, kinetics and thermodynamic studies. *International Journal of Environmental Science and Technology*, **2015**, 12, 683-692	2.3	47
66	An efficient removal of phenol from water by peroxi-electrocoagulation processes. *Journal of Water Process Engineering*, **2014**, 2, 53-57	6.7	46
65	Removal of manganese from water by electrocoagulation: Adsorption, kinetics and thermodynamic studies. *Canadian Journal of Chemical Engineering*, **2013**, 91, 448-458	2.3	45
64	Simultaneous removal of Co, Cu, and Cr from water by electrocoagulation. *Toxicological and Environmental Chemistry*, **2012**, 94, 1930-1940	1.4	43
63	Recovery of hydrogen and removal of nitrate from water by electrocoagulation process. *Environmental Science and Pollution Research*, **2013**, 20, 2184-92	5.1	41
62	Oxidized multiwalled carbon nanotubes as adsorbent for the removal of manganese from aqueous solution. *Environmental Science and Pollution Research*, **2013**, 20, 987-96	5.1	41
61	Studies Relating to Removal of Arsenate by Electrochemical Coagulation: Optimization, Kinetics, Coagulant Characterization. *Separation Science and Technology*, **2010**, 45, 1313-1325	2.5	41

60	Electrocoagulation studies on removal of cadmium using magnesium electrode. *Journal of Applied Electrochemistry*, **2010**, 40, 2023-2032	2.6	41
59	Facile one-pot synthesis of nano-zinc hydroxide by electro-dissolution of zinc as a sacrificial anode and the application for adsorption of Th4+, U4+, and Ce4+ from aqueous solution. *Research on Chemical Intermediates*, **2016**, 42, 4077-4095	2.8	40
58	Studies on the Removal of Arsenate by Electrochemical Coagulation Using Aluminum Alloy Anode. *Clean - Soil, Air, Water*, **2010**, 38, 506-515	1.6	39
57	Adsorption of 2,4-dichlorophenoxyacetic acid (2,4-D) from water by in situ generated metal hydroxides using sacrificial anodes. *Journal of the Taiwan Institute of Chemical Engineers*, **2014**, 45, 2943-2949	5.3	38
56	Optimization of the process parameters for the removal of phosphate from drinking water by electrocoagulation. *Desalination and Water Treatment*, **2009**, 12, 407-414		35
55	Optimization of the process parameters for the removal of boron from drinking water by electrocoagulation□ clean technology. *Journal of Chemical Technology and Biotechnology*, **2010**, 85, 926-933	3.5	34
54	Decontamination of selenate from aqueous solution by oxidized multi-walled carbon nanotubes. *Powder Technology*, **2015**, 274, 268-275	5.2	33
53	Process Conditions and Kinetics for the Removal of Copper from Water by Electrocoagulation. *Environmental Engineering Science*, **2012**, 29, 563-572	2	33
52	Eco□friendly and Easily Prepared Graphene□Nanosheets for Safe Drinking Water: Removal of□Chlorophenoxyacetic Acid Herbicides. *ChemistrySelect*, **2017**, 2, 342-355	1.8	32
51	Studies on the Oxidation of As(III) to As(V) by In-Situ-Generated Hypochlorite. *Industrial & Engineering Chemistry Research*, **2006**, 45, 7729-7732	3.9	31
50	Facile one-pot electrosynthesis of Al(OH)3 □kinetics and equilibrium modeling for adsorption of 2,4,5-trichlorophenoxyacetic acid from aqueous solution. *New Journal of Chemistry*, **2016**, 40, 2249-2258	3.6	30
49	Development and performance evaluation of Proton Exchange Membrane (PEM) based hydrogen generator for portable applications. *International Journal of Hydrogen Energy*, **2011**, 36, 1399-1403	6.7	30
48	Enhanced removal of cephalosporin based antibiotics (CBA) from water by one-pot electrosynthesized Mg(OH)2: a combined theoretical and experimental study to pilot scale. *New Journal of Chemistry*, **2017**, 41, 4518-4530	3.6	28
47	Novel cross-linked anion exchange membrane based on hexaminium functionalized poly(vinylbenzyl chloride). *RSC Advances*, **2015**, 5, 27365-27371	3.7	28
46	An in situ electrosynthesis of metal hydroxides and their application for adsorption of 4-chloro-2-methylphenoxyacetic acid (MCPA) from aqueous solution. *Journal of Environmental Chemical Engineering*, **2014**, 2, 2068-2077	6.8	27
45	A critical study on the removal of copper by an electrochemically assisted coagulation: equilibrium, kinetics, and thermodynamics. *Asia-Pacific Journal of Chemical Engineering*, **2013**, 8, 162-171	1.3	27
44	Studies relating to an electrochemically assisted coagulation for the removal of chromium from water using zinc anode. *Water Science and Technology: Water Supply*, **2011**, 11, 142-150	1.4	24
43	Studies on the removal of arsenate from water through electrocoagulation using direct and alternating current. *Desalination and Water Treatment*, **2012**, 48, 163-173		23

42	An electrochemical process for the separation of cerium from rare earths. *Hydrometallurgy*, **2005**, 76, 115-121	4	23
41	Effect of alternating and direct current in an electrocoagulation process on the removal of cadmium from water. *Water Science and Technology*, **2012**, 65, 353-60	2.2	21
40	Eco-friendly and facilely prepared silica modified amorphous titania (TiO2SiO2) electrocatalyst for the O2 and H2 evolution reactions. *Catalysis Science and Technology*, **2015**, 5, 5016-5022	5.5	20
39	Studies on polymer modified metal oxide anode for oxygen evolution reaction in saline water. *Journal of Electroanalytical Chemistry*, **2013**, 697, 1-4	4.1	20
38	Effects of alternating current (AC) and direct current (DC) in electrocoagulation process for the removal of iron from water. *Canadian Journal of Chemical Engineering*, **2012**, 90, 1160-1169	2.3	20
37	Electrocoagulation studies on the removal of copper from water using mild steel electrode. *Water Environment Research*, **2012**, 84, 209-19	2.8	20
36	Electrochemical Regeneration of Chromium Containing Solution from Metal Finishing Industry. *Industrial & Engineering Chemistry Research*, **2007**, 46, 2898-2901	3.9	20
35	Facile one-pot electrosynthesis of zinc hydroxide for the adsorption of hazardous 2-(2-methyl-4-chlorophenoxy) propionic acid (MCPP) from water and its modelling studies. *Journal of Environmental Chemical Engineering*, **2018**, 6, 2017-2026	6.8	19
34	Sulfonated Poly (Ether Ether Ketone)-Based Composite Proton-Exchange Membrane for Energy Production. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2011**, 60, 742-753	3	19
33	Chlorine Oxides and Chlorine Oxygen Acids **2010**,		18
32	An Investigation of Interfacial and Photoelectrochemical Performance of Thermally Prepared C,N-codoped TiO2 Photoanodes for Water Splitting. *ChemistrySelect*, **2017**, 2, 288-294	1.8	15
31	Recovery of Chromium from the Solid Residue by In-Situ-Generated Hypochlorite. *Industrial & Engineering Chemistry Research*, **2006**, 45, 7743-7747	3.9	12
30	Sulfur-Doped Carbon Chain Network as High-Performance Electrocatalyst for Electro-Fenton System. *ChemistrySelect*, **2019**, 4, 2428-2435	1.8	11
29	Platinum deposition on the nafion membrane by impregnation reduction using nonionic surfactant for water electrolysis An alternate approach. *Energy*, **2014**, 68, 148-151	7.9	11
28	Studies on the Electrochemical Preparation of Sb2O3. *Industrial & Engineering Chemistry Research*, **2007**, 46, 7870-7874	3.9	10
27	1-Nitronapthalene as a cathode material for magnesium reserve batteries. *Journal of Power Sources* , **1996**, 58, 213-215	8.9	10
26	Electrolytic preparation of magnesium perchlorate. *Journal of Applied Electrochemistry*, **1992**, 22, 877-882	2.6	10
25	Fe2O3/TiO2 heterostructured photoanode on titanium substrate for photoelectrochemical water electrolysis. *Materials Chemistry and Physics*, **2017**, 199, 249-256	4.4	9

24	Electrochemical behaviour of mono-chloronitrobenzene as cathode material for magnesium reserve batteries. *Journal of Power Sources*, **2005**, 148, 112-115	8.9	9
23	Dodecyl sulfate chain anchored bio-char to sequester triaryl methane dyes: equilibrium, kinetics, and adsorption mechanism67, 357-370		9
22	Conductivity of low-temperature electrolytes for magnesium batteries. *Journal of Power Sources*, **1992**, 39, 155-161	8.9	8
21	Polyvinyl Alcohol Based Membrane as Separator for Alkaline Water Electrolyzer. *Separation Science and Technology*, **2011**, 46, 1563-1570	2.5	7
20	Electrochemical Preparation of Barium Chlorate from Barium Chloride. *Industrial & Engineering Chemistry Research*, **2006**, 45, 2923-2928	3.9	7
19	Electrolytic preparation of magnesium chlorate from magnesium chloride. *Journal of Applied Electrochemistry*, **1992**, 22, 1201-1204	2.6	6
18	Use of hydrous titanium dioxide as potential sorbent for the removal of manganese from water. *Journal of Electrochemical Science and Engineering*, **2014**, 4,	1.9	5
17	Effect of Cations of Alkali and Alkaline-Earth Metal Chlorides for Chlorine Evolution Reaction. *Industrial & Engineering Chemistry Research*, **2008**, 47, 976-979	3.9	4
16	Performance characteristics of chloro-substituted dinitrobenzene for magnesium reserve batteries. *Journal of Power Sources*, **1993**, 45, 119-130	8.9	4
15	Nitrogen Doped Carbon Nanomaterial as Electrocatalyst for Oxygen Reduction Reaction in Acidic Media: To use in Electro-Fenton. *ChemistrySelect*, **2020**, 5, 10034-10040	1.8	4
14	Can Electrochemistry Make the Worlds Water Clean? A Systematic and Comprehensive Overview. *International Journal of Waste Resources*, **2016**, 6,		4
13	Sulfonated Polystyrene-Block-(Ethylene-Ran-Butylene)-Block-Polystyrene (SPSEBS) Membrane for Sea Water Electrolysis to Generate Hydrogen. *ECS Transactions*, **2010**, 33, 157-166	1	3
12	Nitrogen doped Graphene Nano sheets (NGns) as Electrocatalyst for Electro-Fenton Process for the Degradation of Highly Toxic Chlorophenoxy acid Herbicides from Water. *ChemistrySelect*, **2021**, 6, 2804-2810	1.8	3
11	Studies Relating To Cathodic Reactions In Neutral Chloride Solutions Used In Chlorate Processes. *Industrial & Engineering Chemistry Research*, **2008**, 47, 5742-5745	3.9	2
10	Performance characteristics of organic–inorganic composite electrodes in magnesium reserve batteries. *Journal of Applied Electrochemistry*, **2005**, 35, 1141-1144	2.6	2
9	Removal of iron from drinking water by electrocoagulation: Adsorption and kinetics studies **2011**, 26, 1058		2
8	New Insight into Understand the Enhanced Photoconductivity Properties of Ti (O2) Plate Spurted with Al2O3 for Water Oxidation. *ChemistrySelect*, **2016**, 1, 5037-5041	1.8	2
7	Electrochemistry and Water Pollution. *Environmental Chemistry for A Sustainable World*, **2013**, 27-68	0.8	1

6	Optimization of the process parameters for an electrochemical preparation of strontium perchlorate. *Korean Journal of Chemical Engineering*, **2009**, 26, 1246-1251	2.8	1
5	Studies Relating to Electrolytic Preparation of Potassium Bromate. *Industrial & Engineering Chemistry Research*, **2008**, 47, 1743-1746	3.9	1
4	Studies on the Electrolytic Preparation of Ba(ClO4)2. *Industrial & Engineering Chemistry Research*, **2007**, 46, 6211-6216	3.9	1
3	New Insight into the Electrocatalysis of Ni-Rich Trimetallic NCM-Based Hydroxides for Water Oxidation. *ACS Applied Energy Materials*, **2021**, 4, 6520-6530	6.1	1
2	An Overview of Electrochemical Processes for Purification of Water Contaminated by Agricultural Activities **2016**, 365-372		
1	Optimization of the process parameters for an electrochemical preparation of strontium perchlorate **2011**, 26, 1246		