

# David L Cocke

## List of Publications by Year in descending order

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45  
papers

5,369  
citations

201674

27  
h-index

254184

43  
g-index

49  
all docs

49  
docs citations

49  
times ranked

4106  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocoagulation (EC) – science and applications. <i>Journal of Hazardous Materials</i> , 2001, 84, 29-41.	12.4	1,069
2	Fundamentals, present and future perspectives of electrocoagulation. <i>Journal of Hazardous Materials</i> , 2004, 114, 199-210.	12.4	994
3	A Fourier transform infrared spectroscopic investigation of the early hydration of Portland cement and the influence of sodium lignosulfonate. <i>Cement and Concrete Research</i> , 2000, 30, 267-273.	11.0	350
4	Arsenic removal by electrocoagulation using combined Al-Fe electrode system and characterization of products. <i>Journal of Hazardous Materials</i> , 2007, 139, 220-231.	12.4	331
5	Arsenic removal via electrocoagulation from heavy metal contaminated groundwater in La Comarca Lagunera México. <i>Journal of Hazardous Materials</i> , 2005, 124, 247-254.	12.4	260
6	Electrocoagulation mechanism for COD removal. <i>Separation and Purification Technology</i> , 2007, 56, 204-211.	7.9	251
7	The interfacial chemistry of solidification/stabilization of metals in cement and pozzolanic material systems. <i>Waste Management</i> , 1995, 15, 137-148.	7.4	205
8	An FTIR and XPS investigations of the effects of carbonation on the solidification/stabilization of cement based systems-Portland type V with zinc. <i>Cement and Concrete Research</i> , 1993, 23, 773-784.	11.0	183
9	Planar Models for Alumina-Based Catalysts. <i>Catalysis Reviews - Science and Engineering</i> , 1984, 26, 163-231.	12.9	151
10	Treatment of orange II azo-dye by electrocoagulation (EC) technique in a continuous flow cell using sacrificial iron electrodes. <i>Journal of Hazardous Materials</i> , 2004, 109, 165-171.	12.4	151
11	Electrochemical Reactions for Electrocoagulation Using Iron Electrodes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 2275-2282.	3.7	140
12	An X-ray diffraction (XRD) and Fourier transform infrared spectroscopic (FT-IR) characterization of the speciation of arsenic (V) in Portland cement type-V. <i>Science of the Total Environment</i> , 1998, 224, 57-68.	8.0	121
13	An X-ray diffraction (XRD) and Fourier transform infrared spectroscopic (FT-IR) investigation of the long-term effect on the solidification/stabilization (S/S) of arsenic(V) in Portland cement type-V. <i>Science of the Total Environment</i> , 2004, 325, 255-262.	8.0	120
14	The binding chemistry and leaching mechanisms of hazardous substances in cementitious solidification/stabilization systems. <i>Journal of Hazardous Materials</i> , 1990, 24, 231-253.	12.4	110
15	Interactions of clay minerals with organic pollutants. <i>Science of the Total Environment</i> , 1994, 141, 223-240.	8.0	107
16	Chemical and physical effects of sodium lignosulfonate superplasticizer on the hydration of portland cement and solidification/stabilization consequences. <i>Cement and Concrete Research</i> , 1995, 25, 671-682.	11.0	97
17	Effects of iron oxide nanoparticles on polyvinyl alcohol: interfacial layer and bulk nanocomposites thin film. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2415-2426.	1.9	89
18	Electrochemical treatment of Orange II dye solution – Use of aluminum sacrificial electrodes and floc characterization. <i>Journal of Hazardous Materials</i> , 2010, 174, 851-858.	12.4	83

#	ARTICLE	IF	CITATIONS
19	An investigation of mercury solidification and stabilization in portland cement using X-ray photoelectron spectroscopy and energy dispersive spectroscopy. Cement and Concrete Research, 1990, 20, 79-91.	11.0	60
20	Interactions of montmorillonite with organic compounds-adsorptive and catalytic properties. Chemosphere, 1991, 22, 769-798.	8.2	50
21	An FTIR, SEM and EDS investigation of solidification/ stabilization of chromium using portland cement Type V and Type IP. Journal of Hazardous Materials, 1992, 30, 273-283.	12.4	47
22	Evidence for Electron Transfer Control of Oxygen Incorporation into Bulk Copper. Journal of the Electrochemical Society, 1987, 134, 643-644.	2.9	45
23	SIMS Evidence Concerning Water in Passive Layers. Journal of the Electrochemical Society, 1982, 129, 2149-2151.	2.9	43
24	Application of Ion-Scattering Spectroscopy to Catalyst Characterization. Catalysis Reviews - Science and Engineering, 1987, 29, 447-491.	12.9	41
25	Surface and bulk studies of leached and unleached fly ash using XPS, SEM, EDS and FTIR techniques. Cement and Concrete Research, 1994, 24, 109-118.	11.0	41
26	An XPS and EDS Investigation of Portland Cement Doped with Pb <sup>2+</sup> and Cr <sup>3+</sup> Cations. Hazardous Waste and Hazardous Materials, 1989, 6, 251-267.	0.4	38
27	Solidification of hazardous substances—TGA and FTIR study of Portland cement containing metal nitrates. Journal of Environmental Science and Health Part A, Environmental Science and Engineering, 1989, 24, 589-602.	0.1	29
28	Solidification/stabilization of toxic metal wastes using coke and coal combustion by-products. Waste Management, 1995, 15, 433-440.	7.4	28
29	Electrochemical remediation of chicken processing plant wastewater. Journal of Environmental Chemical Engineering, 2018, 6, 6028-6036.	6.7	23
30	An infrared spectroscopic examination of cement-based solidification/stabilization systems—Portland types V and IP with zinc. Journal of Environmental Science and Health Part A: Environmental Science and Engineering, 1992, 27, 1503-1519.	0.1	18
31	Electrochemical Generation of Green Rust using Electrocoagulation. ECS Transactions, 2006, 3, 67-78.	0.5	16
32	An X-Ray Diffraction, Fourier-Transform Infrared Spectroscopy, and Scanning Electron Microscopy/Energy-Dispersive Spectroscopic Investigation of the Effect of Sodium Lignosulfonate Superplasticizer on the Hydration of Portland Cement Type V. Polymer-Plastics Technology and Engineering, 1999, 38, 849-868.	1.9	15
33	The Surface Properties of Tetradecyltrimethylammonium Bromide Observed by Capillary Electrophoresis. Journal of Chromatographic Science, 2002, 40, 187-190.	1.4	13
34	Treatment of truck wash water using electrocoagulation. Desalination and Water Treatment, 2016, 57, 25991-26002.	1.0	10
35	An FTIR investigation of cement based solidification/stabilization systems doped with cadmium. Journal of Environmental Science and Health Part A: Environmental Science and Engineering, 1992, 27, 1213-1227.	0.1	8
36	Water-Related Matrix Isolation Phenomena during NO <sub>2</sub> Photolysis in Argon Matrix. Applied Spectroscopy, 2004, 58, 528-534.	2.2	8

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37	Interactions of Montmorillonite with p-Nitro- and p-Methoxyanilines. Clays and Clay Minerals, 1992, 40, 237-239.	1.3	7
38	Speciation of silver in cementitious environment. Journal of Hazardous Materials, 1998, 63, 163-177.	12.4	7
39	A Model for Oxide Film Evolution on Alloys and Prediction of Resulting Layer Structure. Materials Research Society Symposia Proceedings, 1994, 355, 421.	0.1	3
40	Multitechnique Approach to Understanding the Microstructure of Cement-Based Systems. Materials Research Society Symposia Proceedings, 1994, 370, 279.	0.1	2
41	Aqueous and Surface Chemistry of Calcium - Metal Hydroxides in High pH Environments. Materials Research Society Symposia Proceedings, 1996, 432, 63.	0.1	2
42	Removal of Lead Hydroxides Complexes from Solutions Formed in Silver/Gold: Cyanidation Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 743-751.	2.1	2
43	Design and Preparation of Heterogeneous Catalysts by Controlled Chemical Reactions with Oxygen and Hydrogen. Materials Research Society Symposia Proceedings, 1994, 368, 121.	0.1	1
44	Effect of added lignosulfonate superplasticizer on the solidification/stabilization of phenol using Portland cement type I. Journal of Environmental Science and Health Part A: Environmental Science and Engineering, 1996, 31, 183-209.	0.1	0
45	Electrochemical Properties Of Copper Oxide Surfaces, Buried Interfaces, And Subsurface Zones And Their Use To Characterize These Entities. Materials Research Society Symposia Proceedings, 2002, 751, 1.	0.1	0