Christos A Aggelopoulos

List of Publications by Year
in descending order

50	1,670	304368	288905
papers	citations	22 h-index	40 g-index

51	51	51	1690
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploring the adsorption mechanisms of cationic and anionic dyes onto agricultural waste peels of banana, cucumber and potato: Adsorption kinetics and equilibrium isotherms as a tool. Journal of Environmental Chemical Engineering, 2018, 6, 6958-6970.	3.3	138
2	Interfacial tension between CO2 and brine (NaCl+CaCl2) at elevated pressures and temperatures: The additive effect of different salts. Advances in Water Resources, 2011, 34, 505-511.	1.7	101
3	Photocatalytic degradation of Naproxen and methylene blue: Comparison between ZnO, TiO2 and their mixture. Chemical Engineering Research and Design, 2018, 113, 174-183.	2.7	100
4	Recent advances of cold plasma technology for water and soil remediation: A critical review. Chemical Engineering Journal, 2022, 428, 131657.	6.6	97
5	Degradation of antibiotic enrofloxacin in water by gas-liquid nsp-DBD plasma: Parametric analysis, effect of H2O2 and CaO2 additives and exploration of degradation mechanisms. Chemical Engineering Journal, 2020, 398, 125622.	6.6	93
6	CO2/CaCl2 solution interfacial tensions under CO2 geological storage conditions: Influence of cation valence on interfacial tension. Advances in Water Resources, 2010, 33, 691-697.	1.7	91
7	Influence of the surface-to-bulk defects ratio of ZnO and TiO2 on their UV-mediated photocatalytic activity. Applied Catalysis B: Environmental, 2017, 205, 292-301.	10.8	91
8	Degradation of atrazine in soil by dielectric barrier discharge plasma â€“ Potential singlet oxygen mediation. Chemical Engineering Journal, 2018, 347, 682-694.	6.6	71
9	TiO2/palygorskite composite nanocrystalline films prepared by surfactant templating route: Synergistic effect to the photocatalytic degradation of an azo-dye in water. Journal of Hazardous Materials, 2012, 211-212, 68-76.	6.5	68
10	The effect of oxidation treatment on the properties of multi-walled carbon nanotube thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 165, 135-138.	1.7	62
11	Dielectric barrier discharge plasma used as a means for the remediation of soils contaminated by non-aqueous phase liquids. Chemical Engineering Journal, 2015, 270, 428-436.	6.6	59
12	Parametric analysis of the operation of a non-thermal plasma reactor for the remediation of NAPL-polluted soils. Chemical Engineering Journal, 2016, 301, 353-361.	6.6	45
13	Remediation of ciprofloxacin-contaminated soil by nanosecond pulsed dielectric barrier discharge plasma: Influencing factors and degradation mechanisms. Chemical Engineering Journal, 2020, 393, 124768.	6.6	44
14	The effect of micro-heterogeneity and capillary number on capillary pressure and relative permeability curves of soils. Geoderma, 2008, 148, 25-34.	2.3	40
15	The Longitudinal Dispersion Coefficient of Soils as Related to the Variability of Local Permeability. Water, Air, and Soil Pollution, 2007, 185, 223-237.	1.1	38
16	Non-aqueous phase liquid-contaminated soil remediation by ex situ dielectric barrier discharge plasma. International Journal of Environmental Science and Technology, 2015, 12, 1011-1020.	1.8	34
17	Novel combination of high voltage nanopulses and in-soil generated plasma micro-discharges applied for the highly efficient degradation of trifluralin. Journal of Hazardous Materials, 2021, 415, 125646.	6.5	30
18	Atmospheric pressure dielectric barrier discharge for the remediation of soil contaminated by organic pollutants. International Journal of Environmental Science and Technology, 2016, 13, 1731-1740.	1.8	29

#	Article	IF	Citations
19	Open structured in comparison with dense multi-walled carbon nanotube buckypapers and their composites. Composites Science and Technology, 2013, 77, 52-59.	3.8	28
20	Structure-Degradation efficiency studies in the remediation of aqueous solutions of dyes using nanosecond-pulsed DBD plasma. Separation and Purification Technology, 2021, 274, 119031.	3.9	27
21	Removal of anionic dyes from aqueous solution by novel pyrrolidinium-based Polymeric Ionic Liquid (PIL) as adsorbent: Investigation of the adsorption kinetics, equilibrium isotherms and the adsorption mechanisms involved. Journal of Environmental Chemical Engineering, 2019, 7, 103163.	3.3	26
22	Highly energy-efficient degradation of antibiotics in soil: Extensive cold plasma discharges generation in soil pores driven by high voltage nanopulses. Science of the Total Environment, 2021, 786, 147420.	3.9	24
23	Remediation of the unsaturated zone of NAPL-polluted low permeability soils with steam injection: an experimental study. Journal of Soils and Sediments, 2011, 11, 72-81.	1.5	23
24	A multi-flowpath model for the interpretation of immiscible displacement experiments in heterogeneous soil columns. Journal of Contaminant Hydrology, 2009, 105, 146-160.	1.6	22
25	A new perspective towards in-situ cold plasma remediation of polluted sites: Direct generation of micro-discharges within contaminated medium. Chemosphere, 2021, 266, 128969.	4.2	21
26	Quantifying soil heterogeneity from solute dispersion experiments. Geoderma, 2008, 146, 412-424.	2.3	20
27	Large-scale effects on resistivity index of porous media. Journal of Contaminant Hydrology, 2005, 77, 299-323.	1.6	18
28	Steady-state two-phase relative permeability functions of porous media: A revisit. International Journal of Multiphase Flow, 2015, 73, 34-42.	1.6	17
29	Key-study on plasma-induced degradation of cephalosporins in water: Process optimization, assessment of degradation mechanisms and residual toxicity. Separation and Purification Technology, 2022, 298, 121639.	3.9	17
30	Cold Atmospheric Plasma Attenuates Breast Cancer Cell Growth Through Regulation of Cell Microenvironment Effectors. Frontiers in Oncology, 2021, 11, 826865.	1.3	16
31	Complex Hydrogel Systems Composed of Polymers, Liposomes, and Cyclodextrins: Implications of Composition on Rheological Properties and Aging. Langmuir, 2009, 25, 8480-8488.	1.6	15
32	Dynamics of surfactant-enhanced oil mobilization and solubilization in porous media: Experiments and numerical modeling. International Journal of Multiphase Flow, 2013, 55, 11-23.	1.6	15
33	Modeling of a DBD plasma reactor for porous soil remediation. Chemical Engineering Journal, 2019, 373, 393-405.	6.6	14
34	Effects of micro-heterogeneity and hydrodynamic dispersion on the dissolution rate of carbon dioxide in water-saturated porous media. International Journal of Greenhouse Gas Control, 2012, 10, 341-350.	2.3	13
35	A Methodology to Estimate the Sorption Parameters from Batch and Column Tests: The Case Study of Methylene Blue Sorption onto Banana Peels. Processes, 2020, 8, 1467.	1.3	13
36	Effects of Carbon Dioxide on the Mobilization of Metals from Aquifers. Environmental Science & Technology, 2014, 48, 4386-4394.	4.6	12

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37	Mobility of zero valent iron nanoparticles and liposomes in porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 711-722.	2.3	12
38	A statistical shrinking core model to estimate the overall dechlorination rate of PCE by an assemblage of zero-valent iron nanoparticles. Chemical Engineering Science, 2017, 167, 191-203.	1.9	12
39	Enhancing the adhesion of graphene to polymer substrates by controlled defect formation. Nanotechnology, 2019, 30, 015704.	1.3	12
40	Valorization of fruit wastes (pistachio shells) as adsorbent for the removal of Zn from aqueous solutions under adverse acidic conditions. , 0, 74, 174-183.		11
41	Highly-energy efficient oxidation of MWCNT with nanosecond pulsed dielectric barrier discharge plasma. Applied Surface Science, 2021, 563, 150139.	3.1	10
42	Assessing the capacity of zero valent iron nanofluids to remediate NAPL-polluted porous media. Science of the Total Environment, 2016, 563-564, 866-878.	3.9	9
43	From aperture characterization to hydraulic properties of fractures. Geoderma, 2012, 181-182, 65-77.	2.3	7
44	Growth and Characterization of Nanostructured Ag-ZnO for Application in Water Purification. Journal of Nano Research, 2020, 62, 75-86.	0.8	7
45	Using multi-level wavelets to correlate the two-phase flow characteristics of porous media withheterogeneity. Chemical Engineering Science, 2010, 65, 6452-6460.	1.9	5
46	A Dynamic Networkâ€Type Simulator to Investigate the Multiphase Flow Properties of Heterogeneous Soils. Vadose Zone Journal, 2010, 9, 285-294.	1.3	5
47	Ex Situ Soil Remediation by Cold Atmospheric Plasma Discharge. Procedia Environmental Sciences, 2013, 18, 649-656.	1.3	4
48	Hierarchical modeling of plasma and transport phenomena in a dielectric barrier discharge reactor. Journal Physics D: Applied Physics, 2017, 50, 505202.	1.3	3
49	CO2-induced release of copper and zinc from model soil in water. International Journal of Greenhouse Gas Control, 2018, 76, 150-157.	2.3	1
50	Microscopic and Macroscopic Properties of Soils Used as Means for the Interpretation of the Efficiency of Soil Remediation Technologies. Procedia Environmental Sciences, 2013, 18, 638-648.	1.3	0