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	Recent advances of cold plasma technology for water and soil remediation: A critical review. Chemical Engineering Journal, 2022, 428, 131657.	6.6	97
2	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
3	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
4	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
5	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
6	Highly-energy efficient oxidation of MWCNT with nanosecond pulsed dielectric barrier discharge plasma. Applied Surface Science, 2021, 563, 150139.	3.1	10
7	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
8	Cold Atmospheric Plasma Attenuates Breast Cancer Cell Growth Through Regulation of Cell Microenvironment Effectors. Frontiers in Oncology, 2021, 11, 826865.	1.3	16
9	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
10	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
11	Growth and Characterization of Nanostructured Ag-ZnO for Application in Water Purification. Journal of Nano Research, 2020, 62, 75-86.	0.8	7
12	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
13	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
14	Modeling of a DBD plasma reactor for porous soil remediation. Chemical Engineering Journal, 2019, 373, 393-405.	6.6	14
15	Enhancing the adhesion of graphene to polymer substrates by controlled defect formation. Nanotechnology, 2019, 30, 015704.	1.3	12
16	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
17	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
18	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

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19	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
20	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
21	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
22	Hierarchical modeling of plasma and transport phenomena in a dielectric barrier discharge reactor. Journal Physics D: Applied Physics, 2017, 50, 505202.	1.3	3
23	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
24	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
25	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
26	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
27	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
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	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
30	Effects of Carbon Dioxide on the Mobilization of Metals from Aquifers. Environmental Science & Technology, 2014, 48, 4386-4394.	4.6	12
31	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
32	Ex Situ Soil Remediation by Cold Atmospheric Plasma Discharge. Procedia Environmental Sciences, 2013, 18, 649-656.	1.3	4
33	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
34	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
35	From aperture characterization to hydraulic properties of fractures. Geoderma, 2012, 181-182, 65-77.	2.3	7
36	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

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37	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
38	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
39	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
40	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
41	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
42	A Dynamic Networkâ€Type Simulator to Investigate the Multiphase Flow Properties of Heterogeneous Soils. Vadose Zone Journal, 2010, 9, 285-294.	1.3	5
43	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
44	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
45	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
46	Quantifying soil heterogeneity from solute dispersion experiments. Geoderma, 2008, 146, 412-424.	2.3	20
47	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
48	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
49	Large-scale effects on resistivity index of porous media. Journal of Contaminant Hydrology, 2005, 77, 299-323.	1.6	18
50	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