

# Chih-Ming Kao

## List of Publications by Year in descending order

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93  
papers

2,373  
citations

147566

31  
h-index

243296

44  
g-index

93  
all docs

93  
docs citations

93  
times ranked

2570  
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ oxidation of petroleum-hydrocarbon contaminated groundwater using passive ISCO system. <i>Water Research</i> , 2011, 45, 2496-2506.	5.3	92
2	Application of potassium permanganate as an oxidant for in situ oxidation of trichloroethylene-contaminated groundwater: A laboratory and kinetics study. <i>Journal of Hazardous Materials</i> , 2008, 153, 919-927.	6.5	89
3	Remediation of PCE-contaminated aquifer by an in situ two-layer biobarrier: laboratory batch and column studies. <i>Water Research</i> , 2003, 37, 27-38.	5.3	86
4	Treatment of petroleum-hydrocarbon contaminated soils using hydrogen peroxide oxidation catalyzed by waste basic oxygen furnace slag. <i>Journal of Hazardous Materials</i> , 2009, 170, 466-472.	6.5	85
5	Bioremediation of diesel and lubricant oil-contaminated soils using enhanced landfarming system. <i>Chemosphere</i> , 2016, 164, 558-567.	4.2	82
6	The change of microbial community from chlorinated solvent-contaminated groundwater after biostimulation using the metagenome analysis. <i>Journal of Hazardous Materials</i> , 2016, 302, 144-150.	6.5	80
7	Investigation of COD and COD/N ratio for the dominance of anammox pathway for nitrogen removal via isotope labelling technique and the relevant bacteria. <i>Journal of Hazardous Materials</i> , 2019, 366, 606-614.	6.5	61
8	Chelant-enhanced washing of CCA-contaminated soil: Coupled with selective dissolution or soil stabilization. <i>Science of the Total Environment</i> , 2018, 612, 1463-1472.	3.9	60
9	Evaluation of natural attenuation rate at a gasoline spill site. <i>Journal of Hazardous Materials</i> , 2001, 82, 275-289.	6.5	59
10	Application of real-time PCR, DGGE fingerprinting, and culture-based method to evaluate the effectiveness of intrinsic bioremediation on the control of petroleum-hydrocarbon plume. <i>Journal of Hazardous Materials</i> , 2010, 178, 409-416.	6.5	59
11	Control of BTEX migration by intrinsic bioremediation at a gasoline spill site. <i>Water Research</i> , 2000, 34, 3413-3423.	5.3	56
12	Development of KMnO <sub>4</sub> -releasing composites for in situ chemical oxidation of TCE-contaminated groundwater. <i>Water Research</i> , 2014, 54, 149-158.	5.3	55
13	Treatment of tetrachloroethylene-contaminated groundwater by surfactant-enhanced persulfate/BOF slag oxidation—A laboratory feasibility study. <i>Journal of Hazardous Materials</i> , 2009, 171, 571-576.	6.5	54
14	Distribution, sources, and behavior of PAHs in estuarine water systems exemplified by Salt River, Taiwan. <i>Marine Pollution Bulletin</i> , 2020, 154, 111029.	2.3	53
15	Biodegradation of propionitrile by <i>Klebsiella oxytoca</i> immobilized in alginate and cellulose triacetate gel. <i>Journal of Hazardous Materials</i> , 2010, 177, 856-863.	6.5	52
16	Enhanced TCDD degradation by Fenton's reagent preoxidation. <i>Journal of Hazardous Materials</i> , 2000, 74, 197-211.	6.5	51
17	Development of a water quality modeling system for river pollution index and suspended solid loading evaluation. <i>Journal of Hydrology</i> , 2013, 478, 89-101.	2.3	48
18	Application of persulfate-releasing barrier to remediate MTBE and benzene contaminated groundwater. <i>Journal of Hazardous Materials</i> , 2011, 185, 1162-1168.	6.5	47

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19	Application of membrane technology on semiconductor wastewater reclamation: A pilot-scale study. <i>Desalination</i> , 2011, 278, 203-210.	4.0	46
20	Enhanced PCE dechlorination by biobarrier systems under different redox conditions. <i>Water Research</i> , 2003, 37, 4885-4894.	5.3	43
21	Application of a constructed wetland system for polluted stream remediation. <i>Journal of Hydrology</i> , 2014, 510, 70-78.	2.3	43
22	Decadal changes in nutrient fluxes and environmental effects in the Jiulong River Estuary. <i>Marine Pollution Bulletin</i> , 2017, 124, 871-877.	2.3	42
23	Remediation of Fuel Oil-Contaminated Soils by a Three-Stage Treatment System. <i>Environmental Engineering Science</i> , 2009, 26, 651-659.	0.8	41
24	Selective and adsorptive removal of anionic dyes and CO <sub>2</sub> with azolium-based metal-organic frameworks. <i>Journal of Colloid and Interface Science</i> , 2018, 519, 214-223.	5.0	41
25	Using a peat biobarrier to remediate PCE/TCE contaminated aquifers. <i>Water Research</i> , 2000, 34, 835-845.	5.3	40
26	Using poly-glutamic acid as soil-washing agent to remediate heavy metal-contaminated soils. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5231-5242.	2.7	39
27	Application of iron/aluminum bimetallic nanoparticle system for chromium-contaminated groundwater remediation. <i>Chemosphere</i> , 2020, 256, 127158.	4.2	39
28	Application of a long-lasting colloidal substrate with pH and hydrogen sulfide control capabilities to remediate TCE-contaminated groundwater. <i>Journal of Hazardous Materials</i> , 2015, 284, 222-232.	6.5	38
29	Development of the sediment and water quality management strategies for the Salt-water River, Taiwan. <i>Marine Pollution Bulletin</i> , 2011, 63, 528-534.	2.3	34
30	Enhanced bioremediation of TCE-contaminated groundwater using gamma poly-glutamic acid as the primary substrate. <i>Journal of Cleaner Production</i> , 2018, 178, 108-118.	4.6	34
31	Effectiveness of AOC removal by advanced water treatment systems: a case study. <i>Desalination</i> , 2007, 202, 318-325.	4.0	31
32	Thermophilic Biodegradation of Diesel Oil in Food Waste Composting Processes Without Bioaugmentation. <i>Environmental Engineering Science</i> , 2012, 29, 117-123.	0.8	31
33	Novel rapid room temperature synthesis of conjugated microporous polymer for metal-free photocatalytic degradation of fluoroquinolones. <i>Journal of Hazardous Materials</i> , 2020, 398, 122928.	6.5	31
34	Greenhouse gas emissions from landfill leachate treatment plants: A comparison of young and aged landfill. <i>Waste Management</i> , 2014, 34, 1156-1164.	3.7	30
35	Application of natural attenuation for the control of petroleum hydrocarbon plume: Mechanisms and effectiveness evaluation. <i>Journal of Hydrology</i> , 2013, 505, 126-137.	2.3	29
36	2,4,6-Trinitrotoluene Induces Apoptosis via ROS-Regulated Mitochondrial Dysfunction and Endoplasmic Reticulum Stress in HepG2 and Hep3B Cells. <i>Scientific Reports</i> , 2017, 7, 8148.	1.6	27

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37	Application of sulfate reduction mechanisms for the simultaneous bioremediation of toluene and copper contaminated groundwater. <i>International Biodeterioration and Biodegradation</i> , 2017, 124, 215-222.	1.9	26
38	Application of polycolloid-releasing substrate to remediate trichloroethylene-contaminated groundwater: A pilot-scale study. <i>Journal of Hazardous Materials</i> , 2014, 268, 92-101.	6.5	25
39	Using aerated gravel-packed contact bed and constructed wetland system for polluted river water purification: A case study in Taiwan. <i>Journal of Hydrology</i> , 2015, 525, 400-408.	2.3	25
40	Enhanced anaerobic biodegradation of OCDD-contaminated soils by <i>Pseudomonas mendocina</i> NSYSU: Microcosm, pilot-scale, and gene studies. <i>Journal of Hazardous Materials</i> , 2014, 278, 433-443.	6.5	23
41	Impact of disposal of dredged material on sediment quality in the Kaohsiung Ocean Dredged Material Disposal Site, Taiwan. <i>Chemosphere</i> , 2018, 191, 555-565.	4.2	23
42	Application of microbial enumeration technique to evaluate the occurrence of natural bioremediation. <i>Water Research</i> , 2001, 35, 1951-1960.	5.3	19
43	Enhancement of microbial 2,4,6-trinitrotoluene transformation with increased toxicity by exogenous nutrient amendment. <i>Ecotoxicology and Environmental Safety</i> , 2017, 138, 39-46.	2.9	19
44	Use of specific gene analysis to assess the effectiveness of surfactant-enhanced trichloroethylene cometabolism. <i>Journal of Hazardous Materials</i> , 2011, 198, 323-330.	6.5	18
45	Biodegradation of trinitrotoluene (TNT) by indigenous microorganisms from TNT-contaminated soil, and their application in TNT bioremediation. <i>Bioremediation Journal</i> , 2016, 20, 165-173.	1.0	18
46	Emulsified polycolloid substrate biobarrier for benzene and petroleum-hydrocarbon plume containment and migration control – A field-scale study. <i>Science of the Total Environment</i> , 2019, 666, 839-848.	3.9	18
47	Enhanced reductive dechlorination of trichloroethene with immobilized <i>Clostridium butyricum</i> in silica gel. <i>Chemosphere</i> , 2020, 238, 124596.	4.2	18
48	Application of enhanced bioreduction for hexavalent chromium-polluted groundwater cleanup: Microcosm and microbial diversity studies. <i>Environmental Research</i> , 2020, 184, 109296.	3.7	18
49	Quantifying N <sub>2</sub> O emissions and production pathways from fresh waste during the initial stage of disposal to a landfill. <i>Waste Management</i> , 2017, 63, 3-10.	3.7	17
50	Growth inhibition of sulfate-reducing bacteria for trichloroethylene dechlorination enhancement. <i>Environmental Research</i> , 2020, 187, 109629.	3.7	17
51	Evaluation of biological stability and corrosion potential in drinking water distribution systems: a case study. <i>Environmental Monitoring and Assessment</i> , 2009, 153, 127-138.	1.3	15
52	Development of a three-stage system for the treatment and reclamation of wastewater containing nano-scale particles. <i>Desalination</i> , 2012, 284, 182-190.	4.0	15
53	Cationic nickel metal-organic frameworks for adsorption of negatively charged dye molecules. <i>Data in Brief</i> , 2018, 18, 1952-1961.	0.5	14
54	Treatment of petroleum hydrocarbon-polluted groundwater with innovative in situ sulfate-releasing biobarrier. <i>Journal of Cleaner Production</i> , 2021, 295, 126424.	4.6	14

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55	Developing an Integrated Modeling Tool for River Water Quality Index Assessment. <i>Water Environment Research</i> , 2017, 89, 260-273.	1.3	12
56	Application of enhanced bioremediation for TCE-contaminated groundwater: a pilot-scale study. <i>Desalination and Water Treatment</i> , 2012, 41, 364-371.	1.0	11
57	Copper promotes <i>E. coli</i> laccase-mediated TNT biotransformation and alters the toxicity of TNT metabolites toward <i>Tigriopus japonicus</i> . <i>Ecotoxicology and Environmental Safety</i> , 2019, 173, 452-460.	2.9	11
58	Biodegradation of tetracyanonickelate by <i>Klebsiella oxytoca</i> under anaerobic conditions. <i>Desalination</i> , 2009, 249, 1212-1216.	4.0	10
59	Bioremediation of 2,4,6-trinitrotoluene-contaminated groundwater using unique bacterial strains: microcosm and mechanism studies. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 1357-1366.	1.8	10
60	Using desulfurization slag as the aquacultural amendment for fish pond water quality improvement: Mechanisms and effectiveness studies. <i>Journal of Cleaner Production</i> , 2017, 143, 1313-1326.	4.6	10
61	Cleanup chlorinated ethene-polluted groundwater using an innovative immobilized <i>Clostridium butyricum</i> column scheme: A pilot-scale study. <i>Journal of Environmental Management</i> , 2022, 311, 114836.	3.8	10
62	Application of integrated GIS and multimedia modeling on NPS pollution evaluation. <i>Environmental Monitoring and Assessment</i> , 2009, 158, 319-331.	1.3	9
63	Rapid nonylphenol degradation in wastewater sludge using microwave peroxide oxidation with nitric acid. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 520-525.	1.3	9
64	Application of an aquatic plant ecosystem for swine wastewater polishment: a full-scale study. <i>Desalination and Water Treatment</i> , 2016, 57, 21243-21252.	1.0	8
65	Development of water and sediment quality management strategies for an urban river basin: a case study in Taiwan. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2018, 67, 810-823.	0.6	8
66	The cytotoxicity and genotoxicity of single and combined fenthion and terbufos treatments in human liver cells and zebrafish embryos. <i>Science of the Total Environment</i> , 2021, 758, 143597.	3.9	8
67	Remediation of weathered diesel-oil contaminated soils using biopile systems: An amendment selection and pilot-scale study. <i>Science of the Total Environment</i> , 2021, 786, 147395.	3.9	7
68	Spatiotemporal Variation and Ecological Risk Assessment of Heavy Metals in Industrialized Urban River Sediments: Fengshan River in Southern Taiwan as a Case Study. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1013.	1.3	7
69	Developing Nonpoint-Source Suspended Solids Control Strategies Using Multimedia Watershed Management Modeling. <i>Water Environment Research</i> , 2010, 82, 2205-2218.	1.3	6
70	Control of trichloroethylene plume migration using a biobarrier system: a field-scale study. <i>Water Science and Technology</i> , 2014, 69, 2074-2078.	1.2	6
71	Long-term dechlorination of cis-DCE to ethene with co-immobilized <i>Dehalococcoides mccartyi</i> BAV1 and <i>Clostridium butyricum</i> in silica gel system. <i>Journal of Hazardous Materials</i> , 2022, 430, 128355.	6.5	6
72	Seasonal Variation of Phthalate Esters in Urban River Sediments: A Case Study of Fengshan River System in Taiwan. <i>Sustainability</i> , 2022, 14, 347.	1.6	6

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73	Using a systematic approach to develop water quality management strategies in the Nankan River, Taiwan. <i>Desalination and Water Treatment</i> , 2013, 51, 6808-6823.	1.0	5
74	Application of a three-stage remediation process to cleanup petroleum-hydrocarbon contaminated sediments. <i>Desalination and Water Treatment</i> , 2015, 56, 435-442.	1.0	5
75	Remediation of TCE-contaminated groundwater using KMnO <sub>4</sub> oxidation: laboratory and field-scale studies. <i>Environmental Science and Pollution Research</i> , 2019, 26, 34027-34038.	2.7	5
76	Application of zeolitic imidazolate framework for hexavalent chromium removal: A feasibility and mechanism study. <i>Water Environment Research</i> , 2021, 93, 1995-2009.	1.3	5
77	Bioremediation of hexavalent-chromium contaminated groundwater: Microcosm, column, and microbial diversity studies. <i>Chemosphere</i> , 2022, 295, 133877.	4.2	5
78	Recovery of chlorinated solvent trichloroethylene contaminated groundwater using a hybrid treatment system. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 149-158.	1.8	4
79	Bioremediation of trichloroethylene-polluted groundwater using emulsified castor oil for slow carbon release and acidification control. <i>Water Environment Research</i> , 2022, 94, e1673.	1.3	4
80	Aerobic Biodegradation of OCDD by P. Mendocina NSYSU: Effectiveness and Gene Inducement Studies. <i>Water Environment Research</i> , 2017, 89, 2113-2121.	1.3	3
81	Biotransformation of trinitrotoluene by <i>Citrobacter</i> sp. YC4 and evaluation of its cyto-toxicological effects. <i>FEMS Microbiology Letters</i> , 2018, 365, .	0.7	3
82	Application of slow-releasing green denaturing colloidal substrates to contain and bioremediate hexavalent-chromium plume. <i>Journal of Cleaner Production</i> , 2022, 365, 132769.	4.6	3
83	Development of a two-stage washing and biodegradation system to remediate octachlorinated dibenzo-p-dioxin-contaminated soils. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 1919-1930.	1.8	2
84	Water quality management in the Kaoping River watershed, Taiwan. <i>Water Science and Technology</i> , 2003, 47, 209-16.	1.2	2
85	Pressure-assisted cyclic washing of heavy-metal-contaminated sediments. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 1017-1026.	1.8	1
86	Characterization of released metabolic organics during AOC analyses by P17 and NOX strains using 3-D fluorescent signals. <i>Chemosphere</i> , 2019, 222, 205-213.	4.2	1
87	Application of slow-release materials for in-situ and passive remediation of contaminated groundwater. , 2020, , 169-199.		1
88	Development of Kaoping River Basin Management Strategies Based on Calculated Carrying Capacity. , 2003, , 199.		0
89	Preparation of Crystalline Nanosized Titania by Microemulsion: Evaluation of Process Variables. <i>Journal of Advanced Oxidation Technologies</i> , 2007, 10, .	0.5	0
90	Editorial. <i>Water Environment Research</i> , 2020, 92, 4-4.	1.3	0

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91	Application of High-Resolution Site Characterization for Contaminated Land Investigation. Journal of Environmental Engineering, ASCE, 2021, 147, 01821004.	0.7	0
92	Knowledge gaps and research needs on microplastics. Water Environment Research, 2021, 93, 4-4.	1.3	0
93	Characterization of two chromate reducing bacteria isolated from heavy metal contaminated soil. Biologia (Poland), 2021, 76, 3909-3917.	0.8	0