

# Kuen-Song Lin

## List of Publications by Year in descending order

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98  
papers

2,924  
citations

201674

27  
h-index

189892

50  
g-index

98  
all docs

98  
docs citations

98  
times ranked

4407  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of porous HKUST-1 metal organic frameworks for hydrogen storage. International Journal of Hydrogen Energy, 2012, 37, 13865-13871.	7.1	344
2	The Antimicrobial Properties of Silver Nanoparticles in Bacillus subtilis Are Mediated by Released Ag <sup>+</sup> Ions. PLoS ONE, 2015, 10, e0144306.	2.5	160
3	Effects of synthesis temperature on the microstructures and basic dyes adsorption of titanate nanotubes. Journal of Hazardous Materials, 2008, 150, 494-503.	12.4	143
4	Synthesis, Characterization, and Application of 1-D Cerium Oxide Nanomaterials: A Review. International Journal of Molecular Sciences, 2010, 11, 3226-3251.	4.1	132
5	Improving CO <sub>2</sub> adsorption capacities and CO <sub>2</sub> /N <sub>2</sub> separation efficiencies of MOF-74(Ni, Co) by doping palladium-containing activated carbon. Chemical Engineering Journal, 2016, 284, 1348-1360.	12.7	110
6	Functionalized Fe <sub>3</sub> O <sub>4</sub> @Silica Core-Shell Nanoparticles as Microalgae Harvester and Catalyst for Biodiesel Production. ChemSusChem, 2015, 8, 789-794.	6.8	105
7	ZnO Nanoparticles Affect Bacillus subtilis Cell Growth and Biofilm Formation. PLoS ONE, 2015, 10, e0128457.	2.5	92
8	Photocatalytic oxidation of toxic organohalides with TiO <sub>2</sub> /UV: The effects of humic substances and organic mixtures. Chemosphere, 2007, 66, 1872-1877.	8.2	85
9	Enhanced visible-light-driven photocatalytic degradation by metal wire-mesh supported Ag/flower-like Bi <sub>2</sub> WO <sub>6</sub> photocatalysts. Journal of Alloys and Compounds, 2020, 813, 152186.	5.5	75
10	Degradation of TCE, PCE, and 1,2-DCE DNAPLs in contaminated groundwater using polyethylenimine-modified zero-valent iron nanoparticles. Journal of Cleaner Production, 2018, 175, 456-466.	9.3	68
11	Synthesis and characterization of nickel ferrite nanocatalysts for CO <sub>2</sub> decomposition. Catalysis Today, 2011, 174, 88-96.	4.4	63
12	Fine structure characterization of zero-valent iron nanoparticles for decontamination of nitrites and nitrates in wastewater and groundwater. Science and Technology of Advanced Materials, 2008, 9, 025015.	6.1	62
13	pH-Dependent Antimicrobial Properties of Copper Oxide Nanoparticles in Staphylococcus aureus. International Journal of Molecular Sciences, 2017, 18, 793.	4.1	58
14	Recycling copper nanoparticles from printed circuit board waste etchants via a microemulsion process. Journal of Cleaner Production, 2018, 185, 781-796.	9.3	58
15	Direct synthesis of formic acid via CO <sub>2</sub> hydrogenation over Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> catalyst. Journal of Cleaner Production, 2018, 172, 1957-1977.	9.3	54
16	Supercritical Water Oxidation of 2-Chlorophenol Catalyzed by Cu <sup>2+</sup> Cations and Copper Oxide Clusters. Environmental Science & Technology, 2000, 34, 4849-4854.	10.0	50
17	Preparation and characterization of CuO Al <sub>2</sub> O <sub>3</sub> catalyst for dimethyl ether production via methanol dehydration. International Journal of Hydrogen Energy, 2017, 42, 23526-23538.	7.1	43
18	Flower-like BiOBr decorated stainless steel wire-mesh as immobilized photocatalysts for photocatalytic degradation applications. Applied Surface Science, 2019, 494, 492-500.	6.1	43

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19	Antimicrobial effects of zero-valent iron nanoparticles on gram-positive Bacillus strains and gram-negative Escherichia coli strains. Journal of Nanobiotechnology, 2017, 15, 77.	9.1	40
20	Assessment of agricultural waste-derived activated carbon in multiple applications. Environmental Research, 2020, 191, 110176.	7.5	34
21	Sludge conditioning characteristics of copper chemical mechanical polishing wastewaters treated by electrocoagulation. Journal of Hazardous Materials, 2006, 136, 183-187.	12.4	33
22	Synthesis, characterization, and adsorption kinetics of titania nanotubes for basic dye wastewater treatment. Adsorption, 2010, 16, 47-56.	3.0	32
23	Novel Ag@AgCl@AgBr heterostructured nanotubes as high-performance visible-light photocatalysts for decomposition of dyes. Catalysis Today, 2018, 314, 10-19.	4.4	32
24	Iron oxide-pluronic F127 polymer nanocomposites as carriers for a doxorubicin drug delivery system. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 562, 361-369.	4.7	32
25	Improved H <sub>2</sub> production of ZnO@ZnS nanorod-decorated Ni foam immobilized photocatalysts. International Journal of Hydrogen Energy, 2021, 46, 11357-11368.	7.1	32
26	Synthesis and Characterization of 1D Ceria Nanomaterials for CO Oxidation and Steam Reforming of Methanol. Journal of Nanomaterials, 2011, 2011, 1-16.	2.7	30
27	Characterization and Hydrogen Storage of Surface-Modified Multiwalled Carbon Nanotubes for Fuel Cell Application. Journal of Nanomaterials, 2012, 2012, 1-12.	2.7	30
28	Catalytic gasification of automotive shredder residues with hydrogen generation. Journal of Power Sources, 2010, 195, 6016-6023.	7.8	29
29	Hydrogen Generation Using a CuO/ZnO-ZrO <sub>2</sub> Nanocatalyst for Autothermal Reforming of Methanol in a Microchannel Reactor. Molecules, 2011, 16, 348-366.	3.8	29
30	Synthesis, characterization, and hydrogen storage study by hydrogen spillover of MIL-101 metal organic frameworks. Adsorption, 2012, 18, 483-491.	3.0	28
31	Mercury adsorption and re-emission inhibition from actual WFGD wastewater using sulfur-containing activated carbon. Environmental Research, 2019, 168, 319-328.	7.5	27
32	Synthesis, Fine Structural Characterization, and CO <sub>2</sub> Adsorption Capacity of Metal Organic Frameworks-74. Journal of Nanoscience and Nanotechnology, 2014, 14, 2709-2717.	0.9	26
33	Superparamagnetic Iron Oxide Nanorod Carriers for Paclitaxel Delivery in the Treatment and Imaging of Colon Cancer in Mice. Journal of Biomedical Nanotechnology, 2016, 12, 1734-1745.	1.1	26
34	Conversion of hydrogen/carbon dioxide into formic acid and methanol over Cu/CuCr <sub>2</sub> O <sub>4</sub> catalyst. International Journal of Hydrogen Energy, 2017, 42, 23647-23663.	7.1	26
35	Design of doxorubicin encapsulated pH-/thermo-responsive and cationic shell-crosslinked magnetic drug delivery system. Colloids and Surfaces B: Biointerfaces, 2022, 209, 112168.	5.0	26
36	Synthesis and characterization of H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> /Ce <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>2</sub> for dimethyl carbonate formation via Methanol carbonation. International Journal of Hydrogen Energy, 2017, 42, 22108-22122.	7.1	25

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37	Speciation and fate of toxic cadmium in contaminated paddy soils and rice using XANES/EXAFS spectroscopy. <i>Journal of Hazardous Materials</i> , 2020, 383, 121167.	12.4	25
38	Treatment of simulated chromium-contaminated wastewater using polyethylenimine-modified zero-valent iron nanoparticles. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 108, 92-101.	5.3	23
39	Preparation and characterization of CuO/ZnO-Al <sub>2</sub> O <sub>3</sub> catalyst washcoats with CeO <sub>2</sub> sols for autothermal reforming of methanol in a microreactor. <i>Catalysis Today</i> , 2011, 164, 251-256.	4.4	22
40	Fate and transport with material response characterization of green sorption media for copper removal via adsorption process. <i>Chemosphere</i> , 2016, 144, 1280-1289.	8.2	20
41	Effects of metal oxide nanoparticles on the structure and activity of lysozyme. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 151, 344-353.	5.0	19
42	Hydrogen adsorption in metal organic frameworks by hydrogen spillover. <i>Catalysis Today</i> , 2011, 164, 23-27.	4.4	18
43	Small-angle neutron scattering studies of microenvironmental and structural changes of Pluronic micelles upon encapsulation of paclitaxel. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 71, 405-413.	5.3	18
44	Preparation and characterization of V-Loaded titania nanotubes for adsorption/photocatalysis of basic dye and environmental hormone contaminated wastewaters. <i>Catalysis Today</i> , 2018, 307, 119-130.	4.4	18
45	In-situ reductive degradation of chlorinated DNAPLs in contaminated groundwater using polyethylenimine-modified zero-valent iron nanoparticles. <i>Chemosphere</i> , 2019, 224, 816-826.	8.2	18
46	In vitro intracellular studies of pH and thermo-triggered doxorubicin conjugated magnetic SBA-15 mesoporous nanocarriers for anticancer activity against hepatocellular carcinoma. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 102, 1-16.	5.8	18
47	Preparation and characterization of aligned iron nanorod using aqueous chemical method. <i>Thin Solid Films</i> , 2009, 517, 5192-5196.	1.8	17
48	Multifunctional nanocarrier as a potential micro-RNA delivery vehicle for neuroblastoma treatment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 526-537.	5.3	16
49	Formulation of magnetic nanocomposites for intracellular delivery of micro-RNA for MYCN inhibition in neuroblastoma. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 615, 126264.	4.7	16
50	Synergistic effects of morphology control and calcination on the activity of flower-like Bi <sub>2</sub> WO <sub>6</sub> -Bi <sub>2</sub> O <sub>3</sub> photocatalysts prepared by an ionic liquid-assisted solvothermal method. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160920.	5.5	16
51	In vitro study of doxorubicin-loaded thermo- and pH-tunable carriers for targeted drug delivery to liver cancer cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 104, 93-105.	5.8	15
52	Hydrogen generation by catalytic gasification of motor oils in an integrated fuel processor. <i>Catalysis Today</i> , 2008, 136, 281-290.	4.4	14
53	Degradation of TNT, RDX, and HMX Explosive Wastewaters Using Zero-Valent Iron Nanoparticles. <i>Propellants, Explosives, Pyrotechnics</i> , 2013, 38, 786-790.	1.6	14
54	Synthesis of Ag-modified TiO <sub>2</sub> nanotube and its application in photocatalytic degradation of dyes and elemental mercury. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3251-3262.	3.2	14

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55	Synthesis, characterization, and application of zero-valent iron nanoparticles for TNT, RDX, and HMX explosives decontamination in wastewater. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 114, 186-198.	5.3	14
56	Structural Characterization and Adsorption Properties of Pluronic F127 Onto Iron Oxides Magnetic Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2361-2367.	0.9	13
57	Synthesis and characterization of magnetic zinc and manganese ferrite catalysts for decomposition of carbon dioxide into methane. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22123-22137.	7.1	13
58	In vitro studies of Pluronic F127 coated magnetic silica nanocarriers for drug delivery system targeting liver cancer. <i>European Polymer Journal</i> , 2021, 153, 110504.	5.4	13
59	Fate and transport with material response characterization of green sorption media for copper removal via desorption process. <i>Chemosphere</i> , 2016, 154, 444-453.	8.2	12
60	Effects of ZnO on Characteristics and Selectivity of Coprecipitated Ni/ZnO/Al <sub>2</sub> O <sub>3</sub> Catalysts for Partial Hydrogenation of Sunflower Oil. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 3163-3174.	3.7	12
61	Decontamination of 1,2-Dichloroethane DNAPL in Contaminated Groundwater by Polymer-Modified Zero-Valent Iron Nanoparticles. <i>Topics in Catalysis</i> , 2018, 61, 1653-1664.	2.8	12
62	Enhancement of biodiesel production via sequential esterification/transesterification over solid superacidic and superbasic catalysts. <i>Catalysis Today</i> , 2020, 348, 257-269.	4.4	12
63	Speciation and fate of toxic cadmium in contaminated paddy soils and rice using XANES/EXAFS spectroscopy. <i>Journal of Hazardous Materials</i> , 2021, 407, 124879.	12.4	12
64	Synthesis and Characterization of Nickel and Zinc Ferrite Nanocatalysts for Decomposition of CO <sub>2</sub> Greenhouse Effect Gas. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2538-2548.	0.9	11
65	Formulation and characterization of multifunctional polymer modified-iron oxide magnetic nanocarrier for doxorubicin delivery. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 104, 260-272.	5.3	11
66	Improved hydrogen storage capacity by hydrogen spillover and fine structural characterization of MIL-100 metal organic frameworks. <i>Research on Chemical Intermediates</i> , 2015, 41, 7655-7667.	2.7	10
67	Formulation and in-vitro evaluations of doxorubicin loaded polymerized magnetic nanocarriers for liver cancer cells. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 126, 278-287.	5.3	10
68	Characterization of the size and porous temperature sensitivity of Pluronic F127-Coated MIL-88B(Fe) for drug release. <i>Microporous and Mesoporous Materials</i> , 2021, 328, 111456.	4.4	10
69	Effect of direct ultrasound synthesis via a sesquihydrate route on bismuth-promoted vanadyl pyrophosphate catalysts. <i>Journal of the Chinese Chemical Society</i> , 2020, 67, 94-102.	1.4	9
70	Preparation, characterization, and in-vitro studies of doxorubicin-encapsulated silica coated iron oxide nanocomposites on liver cancer cells. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 117, 190-197.	5.3	9
71	Synthesis and Characterization of Porous Zero-Valent Iron Nanoparticles for Remediation of Chromium-Contaminated Wastewater. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2675-2681.	0.9	8
72	Synthesis of Carbon Dots on Fe <sub>3</sub> O <sub>4</sub> Nanoparticles as Recyclable Visible-Light Photocatalysts. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-4.	2.1	8

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73	Magnetic separation and recycling of ferrite nanocatalysts for CO <sub>2</sub> decomposition with CH <sub>4</sub> recovery from steel industrial flyash. <i>Catalysis Today</i> , 2018, 307, 260-271.	4.4	8
74	In vivo imaging of neuroblastomas using GD2-targeting graphene quantum dots. <i>Journal of Pediatric Surgery</i> , 2021, 56, 1227-1232.	1.6	8
75	Small Angle X-Ray Scattering Characterization of Multifunctional Iron Oxide-Pluronic Nanocarriers: Effect of Temperature and Drug Encapsulation. <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 667-670.	0.4	8
76	Enhancement of DME Formation from Methanol Dehydration by Doping CuO@ZnO@Al <sub>2</sub> O <sub>3</sub> into H-Form Zeolites. <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 1072-1079.	0.4	8
77	DECONTAMINATION OF NITRATES AND NITRITES IN WASTEWATER BY ZERO-VALENT IRON NANOPARTICLES. <i>Nano</i> , 2008, 03, 291-295.	1.0	7
78	Degradation of rhodamine B under visible-light with nanotubular Ag@AgCl@AgI photocatalysts. <i>Catalysis Today</i> , 2020, 358, 155-163.	4.4	7
79	Preparation and characterization of Ni/Al <sub>2</sub> O <sub>3</sub> for carbon nanofiber fabrication from CO <sub>2</sub> hydrogenation. <i>Catalysis Today</i> , 2022, 388-389, 341-350.	4.4	7
80	Bioaccumulation of trace metals and speciation of copper and zinc in Pacific oysters ( <i>Crassostrea</i> ). <i>Environmental Science and Pollution Research</i> , 2017, 24, 1008-1015.	8.2	7
81	Acid-Catalyzed Synthesis and CO <sub>2</sub> Adsorption of Cu and Cu-Zn Bimetallic Imidazolate Frameworks. <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 621-627.	0.4	7
82	Preparation, Characterization, and Hydrogen Storage Capacity of MIL-53 Metal-Organic Frameworks. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2549-2556.	0.9	6
83	Synthesis, Characterization, and Hydrogen Storage Enhancement of M <sub>2</sub> (BDC) <sub>2</sub> dabco with Palladium-Doped Activated Carbon. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2700-2708.	0.9	6
84	Formulation and characterization of W-doped titania nanotubes for adsorption/photodegradation of methylene blue and basic violet 3 dyes. <i>Catalysis Today</i> , 2022, 388-389, 36-46.	4.4	6
85	Fluorescent and thermoresponsive tetraphenylethene-based cross-linked poly(N-isopropylacrylamide)s: Synthesis, thermal/AIE properties, and cell viability. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 133, 104238.	5.3	6
86	Preparation of AgCl/TNTs nanocomposites for organic dyes and inorganic heavy metal removal. <i>Environmental Science and Pollution Research</i> , 2019, 26, 22082-22096.	5.3	5
87	INTEGRATING NANOSCALE ZERO-VALENT IRON AND TITANIUM DIOXIDE FOR NUTRIENT REMOVAL IN STORMWATER SYSTEMS. <i>Nano</i> , 2008, 03, 297-300.	1.0	4
88	Desulfurization of Gasoline and Diesel by Adsorption with Cu(I)-Y Zeolite. <i>Journal of Chemical Engineering of Japan</i> , 2009, 42, S168-S175.	0.6	4
89	Copper, nickel, and zinc cations biosorption properties of Gram-positive and Gram-negative MerP mercury-resistance proteins. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 168-175.	5.3	4
90	Preparation and characterization of mesoporous polymer-based solid acid catalysts for biodiesel production via transesterification of palmitic oils. <i>Catalysis Today</i> , 2021, , .	4.4	4

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91	Synthesis, characterization, and application of gene conjugated polymerized nitrogen-doped graphene quantum dots carriers for in vivo bio-targeting in neuroblastoma treatment. Journal of the Taiwan Institute of Chemical Engineers, 2022, 131, 104167.	5.3	4
92	Gasification of Aromatic Volatile Organic Compounds Generated from Petroleum and Refinery Industries with Syngas Recycling. Practice Periodical of Hazardous, Toxic and Radioactive Waste Management, 2006, 10, 150-155.	0.4	2
93	Interplay between magnetic ion and amorphous carbon in Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C nanocomposite. AIP Advances, 2019, 9, 035134.	1.3	2
94	Spin-Phonon Coupling in PrMn <sub>2</sub> O <sub>5</sub> Nanorods. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	1
95	Direct Ultrasound Synthesis of Vanadyl Pyrophosphate Catalyst for Partial Oxidation of N-Butane to Maleic Anhydride. Journal of Computational and Theoretical Nanoscience, 2020, 17, 925-933.	0.4	1
96	Size Effect on LuMn <sub>2</sub> O <sub>5</sub> Nanorods. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	0
97	Interplay between doping and size effects on Y <sub>1-x</sub> EuxMn <sub>2</sub> O <sub>5</sub> nanorods. AIP Advances, 2020, 10, 025017.	1.3	0
98	Design of Smart PEO-PPO-PEO-Magnetic Drug Delivery System for Alzheimer's Diseases Diagnosis and Therapy. Current Medicinal Chemistry, 2012, . .	2.4	0