

# Yu-Lin Kuo

## List of Publications by Year in descending order

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93  
papers

1,902  
citations

257450

24  
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315739

38  
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93  
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93  
docs citations

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times ranked

2353  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Pt/TiO <sub>2</sub> characteristics on temporal behavior of o-cresol decomposition by visible light-induced photocatalysis. <i>Water Research</i> , 2007, 41, 2069-2078.	11.3	127
2	Analysis of silver particles incorporated on TiO <sub>2</sub> coatings for the photodecomposition of o-cresol. <i>Thin Solid Films</i> , 2007, 515, 3461-3468.	1.8	93
3	Assessment of redox behavior of nickel ferrite as oxygen carriers for chemical looping process. <i>Ceramics International</i> , 2013, 39, 5459-5465.	4.8	73
4	Atmospheric pressure plasma enhanced chemical vapor deposition of SiO <sub>x</sub> films for improved corrosion resistant properties of AZ31 magnesium alloys. <i>Surface and Coatings Technology</i> , 2015, 283, 194-200.	4.8	72
5	A study of parameter setting and characterization of visible-light driven nitrogen-modified commercial TiO <sub>2</sub> photocatalysts. <i>Journal of Hazardous Materials</i> , 2011, 190, 938-944.	12.4	67
6	Adsorption and precipitation of fluoride on calcite nanoparticles: A spectroscopic study. <i>Separation and Purification Technology</i> , 2015, 150, 325-331.	7.9	64
7	The evolution of diffusion barriers in copper metallization. <i>Jom</i> , 2007, 59, 44-49.	1.9	58
8	Ascorbic Acid-Assisted Synthesis of Mesoporous Sodium Vanadium Phosphate Nanoparticles with Highly sp <sup>2</sup> -Coordinated Carbon Coatings as Efficient Cathode Materials for Rechargeable Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 10620-10626.	3.3	55
9	Gadolinia-doped ceria films deposited by RF reactive magnetron sputtering. <i>Solid State Ionics</i> , 2009, 180, 1421-1428.	2.7	53
10	Treatment of boron-containing optoelectronic wastewater by precipitation process. <i>Desalination</i> , 2011, 280, 146-151.	8.2	52
11	Methane combustion by moving bed fuel reactor with Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> oxygen carriers. <i>Applied Energy</i> , 2014, 113, 1909-1915.	10.1	51
12	Diffusion barrier properties of sputtered TaN <sub>x</sub> between Cu and Si using TaN as the target. <i>Materials Chemistry and Physics</i> , 2003, 80, 690-695.	4.0	46
13	Mineralization of reactive Black 5 in aqueous solution by ozone/H <sub>2</sub> O <sub>2</sub> in the presence of a magnetic catalyst. <i>Journal of Hazardous Materials</i> , 2010, 174, 795-800.	12.4	42
14	Redox performance of Na-modified Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> with syngas as reducing agent in chemical looping combustion process. <i>Chemical Engineering Journal</i> , 2018, 334, 2079-2087.	12.7	40
15	Investigation of thermal stability of Mo thin-films as the buffer layer and various Cu metallization as interconnection materials for thin film transistor-liquid crystal display applications. <i>Thin Solid Films</i> , 2007, 515, 7209-7216.	1.8	37
16	Characterization and Evaluation of Prepared Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> Oxygen Carriers for Chemical Looping Process. <i>Aerosol and Air Quality Research</i> , 2014, 14, 981-990.	2.1	34
17	Fluoride at waste oyster shell surfaces – Role of magnesium. <i>Science of the Total Environment</i> , 2019, 652, 1331-1338.	8.0	31
18	Diffusion of Copper in Titanium Zirconium Nitride Thin Films. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, C35.	2.2	30

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19	Atmospheric-pressure plasma treatment on polystyrene for the photo-induced grafting polymerization of N-isopropylacrylamide. <i>Thin Solid Films</i> , 2010, 518, 7568-7573.	1.8	27
20	Wettability, electron work function and corrosion behavior of CoCrFeMnNi high entropy alloy films. <i>Surface and Coatings Technology</i> , 2020, 400, 126222.	4.8	27
21	Effect of density on the diffusion barrier property of TiN <sub>x</sub> films between Cu and Si. <i>Materials Chemistry and Physics</i> , 2004, 85, 444-449.	4.0	26
22	One-step fabrication of tetragonal ZrO <sub>2</sub> particles by atmospheric pressure plasma jet. <i>Powder Technology</i> , 2014, 267, 74-79.	4.2	26
23	Evaluation of the thermal stability of reactively sputtered (Ti, Zr)N <sub>x</sub> nano-thin films as diffusion barriers between Cu and Silicon. <i>Thin Solid Films</i> , 2005, 484, 265-271.	1.8	25
24	Assessment of thermochemically stable apatite La <sub>10</sub> (SiO <sub>4</sub> ) <sub>6</sub> O <sub>3</sub> as electrolyte for solid oxide fuel cells. <i>Ceramics International</i> , 2012, 38, 3955-3961.	4.8	25
25	Use of Spinel Nickel Aluminium Ferrite as Self-Supported Oxygen Carrier for Chemical Looping Hydrogen Generation Process. <i>Aerosol and Air Quality Research</i> , 2015, 15, 2700-2708.	2.1	25
26	Reactions of Tp(NH <sub>i</sub> €CPh <sub>2</sub> )(PPh <sub>3</sub> )Ru€“Cl with HCl€“CPh in the presence of H <sub>2</sub> O: insertion/hydration products. <i>Dalton Transactions</i> , 2009, , 4435.	3.3	24
27	Mechanism of Fe <sub>2</sub> TiO <sub>5</sub> as oxygen carrier for chemical looping process and evaluation for hydrogen generation. <i>Ceramics International</i> , 2014, 40, 4599-4605.	4.8	24
28	Experimental analysis and optimization of the synthesizing property of nitrogen€“modified TiO <sub>2</sub> visible€“light photocatalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 160-164.	3.2	23
29	Study of Poly (3,4-ethylenedioxythiophene)/MnO <sub>2</sub> as Composite Cathode Materials for Aluminum-Air Battery. <i>Electrochimica Acta</i> , 2015, 176, 1324-1331.	5.2	23
30	Effect of Surfactant and Budesonide on the Pulmonary Distribution of Fluorescent Dye in Mice. <i>Pediatrics and Neonatology</i> , 2015, 56, 19-24.	0.9	22
31	A facile synthesis of high quality nanostructured CeO <sub>2</sub> and Gd <sub>2</sub> O <sub>3</sub> -doped CeO <sub>2</sub> solid electrolytes for improved electrochemical performance. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14193-14200.	2.8	22
32	A facile method for sodium-modified Fe <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> oxygen carrier by an air atmospheric pressure plasma jet for chemical looping combustion process. <i>Chemical Engineering Journal</i> , 2017, 316, 15-23.	12.7	20
33	Electric arc furnace dust as an alternative low-cost oxygen carrier for chemical looping combustion. <i>Journal of Hazardous Materials</i> , 2018, 342, 297-305.	12.4	20
34	Characteristics of sputtered TaB <sub>x</sub> thin films as diffusion barriers between copper and silicon. <i>Applied Surface Science</i> , 2003, 220, 349-358.	6.1	18
35	Preparation of composite nickel€“iron oxide as highly reactive oxygen carrier for chemical-looping combustion process. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 174-179.	5.3	18
36	Alginate/Poly( <i>l</i> -glutamic Acid) Base Biocompatible Gel for Bone Tissue Engineering. <i>BioMed Research International</i> , 2015, 2015, 1-7.	1.9	17

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37	Effects of Silver on the Photocatalytic Degradation of Gaseous Isopropanol. <i>Water, Air, and Soil Pollution</i> , 2009, 197, 313-321.	2.4	16
38	Characterization of electrolyte films deposited by using RF magnetron sputtering a 20mol% gadolinia-doped ceria target. <i>Thin Solid Films</i> , 2010, 518, 7229-7232.	1.8	16
39	Chemical looping combustion of polyurethane and polypropylene in an annular dual-tube moving bed reactor with iron-based oxygen carrier. <i>Fuel</i> , 2014, 135, 146-152.	6.4	16
40	Formation of Aluminum Composite Passive Film on Magnesium Alloy by Integrating Sputtering and Anodic Aluminum Oxidation Processes. <i>Thin Solid Films</i> , 2020, 709, 138151.	1.8	16
41	A novel two-step MOCVD for producing thin copper films with a mixture of ethyl alcohol and water as the additive. <i>Thin Solid Films</i> , 2006, 498, 43-49.	1.8	15
42	A DSC study on the kinetics of disproportionation reaction of (hfac)CuI(COD). <i>Thermochimica Acta</i> , 2007, 456, 89-93.	2.7	15
43	Growth of 20mol% Gd-doped ceria thin films by RF reactive sputtering: The O <sub>2</sub> /Ar flow ratio effect. <i>Journal of the European Ceramic Society</i> , 2011, 31, 3127-3135.	5.7	15
44	Rice husk as solid fuel for chemical looping combustion in an annular dual-tube moving bed reactor. <i>Chemical Engineering Journal</i> , 2015, 280, 82-89.	12.7	14
45	Improvement of photocatalytic activities of Ag/P25 hybrid systems by controlled morphology of Ag nanoprisms. <i>Materials Chemistry and Physics</i> , 2017, 192, 78-85.	4.0	14
46	Tailoring surface properties of polyethylene terephthalate by atmospheric pressure plasma jet for grafting biomaterials. <i>Thin Solid Films</i> , 2020, 709, 138152.	1.8	14
47	Liquid sintering behavior of Cu-based oxygen carriers for chemical looping process. <i>Catalysis Communications</i> , 2017, 92, 70-74.	3.3	13
48	Utilization of electric arc furnace dust as regenerable sorbents for the removal of hydrogen sulfide. <i>Ceramics International</i> , 2017, 43, S694-S699.	4.8	13
49	Tailoring the O <sub>2</sub> reduction activity on hydrangea-like La <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> cathode film fabricated via atmospheric pressure plasma jet process. <i>Ceramics International</i> , 2018, 44, 7349-7356.	4.8	13
50	Flexible rGO-SnO <sub>2</sub> supercapacitors converted from pastes containing SnCl <sub>2</sub> liquid precursor using atmospheric-pressure plasma jet. <i>Ceramics International</i> , 2021, 47, 1651-1659.	4.8	13
51	Assessment of structurally stable cubic Bi <sub>12</sub> TiO <sub>20</sub> as intermediate temperature solid oxide fuels electrolyte. <i>Journal of the European Ceramic Society</i> , 2011, 31, 3119-3125.	5.7	12
52	Spent Isopropanol Solution as Possible Liquid Fuel for Moving Bed Reactor in Chemical Looping Combustion. <i>Energy &amp; Fuels</i> , 2014, 28, 657-665.	5.1	12
53	Carbon-free SiO <sub>x</sub> ultrathin film using atmospheric pressure plasma jet for enhancing the corrosion resistance of magnesium alloys. <i>Vacuum</i> , 2017, 146, 8-10.	3.5	12
54	The enhanced abrasion resistance of an anti-fingerprint coating on chrome-plated brass substrate by integrating sputtering and atmospheric pressure plasma jet technologies. <i>Applied Surface Science</i> , 2018, 448, 88-94.	6.1	12

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55	A facile method for the deposition of Gd <sub>2</sub> O <sub>3</sub> -doped ceria films by atmospheric pressure plasma jet. <i>Thin Solid Films</i> , 2014, 570, 215-220.	1.8	11
56	Dual RGD-immobilized poly(L-lactic acid) by atmospheric pressure plasma jet for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 178, 358-364.	5.0	11
57	Growth of (Ti,Zr)N Films on Si by DC Reactive Sputtering of TiZr in N <sub>2</sub> /Ar Gas Mixtures. <i>Journal of the Electrochemical Society</i> , 2004, 151, C176.	2.9	10
58	Sintering behaviour and electrical properties of gadolinia-doped ceria modified by addition of silicon oxide and titanium oxide. <i>Micro and Nano Letters</i> , 2012, 7, 472.	1.3	10
59	Performance characterization of passive micromixer with dual opposing strips on microchannel walls. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 93, 27-33.	3.6	10
60	Preparation of platinum- and silver-incorporated TiO <sub>2</sub> coatings in thin-film photoreactor for the photocatalytic decomposition of <i>o</i> -cresol. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 1799-1806.	2.2	9
61	In operando measurements of kinetics of solid electrolyte interphase formation in lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 400, 426-433.	7.8	9
62	Carbon Dioxide Tornado-Type Atmospheric-Pressure-Plasma-Jet-Processed rGO-SnO <sub>2</sub> Nanocomposites for Symmetric Supercapacitors. <i>Materials</i> , 2021, 14, 2777.	2.9	9
63	Characteristics of DC Reactively Sputtered (Ti,Zr)N Thin Films as Diffusion Barriers for Cu Metallization. <i>Electrochemical and Solid-State Letters</i> , 2003, 6, C123.	2.2	8
64	Synthesis and study on phase diagram of 10mol% SnO <sub>2</sub> -doped Bi <sub>2</sub> O <sub>3</sub> . <i>Journal of the European Ceramic Society</i> , 2011, 31, 3153-3158.	5.7	8
65	Oxygen vacancy levels on gadolinia-doped ceria interlayer deposited by atmospheric pressure plasma jet for solid oxide fuel cells. <i>Ceramics International</i> , 2018, 44, 15262-15268.	4.8	8
66	Effects of cyclonic plasma deposited organosilicon nano-coating on 316 stainless steel and its surface characterization. <i>Surface and Interface Analysis</i> , 2019, 51, 993-1000.	1.8	8
67	Evaluation of the Photochemical Stability of Zinc Sulfide as Protective Layer on Silver Indium Sulfide Photocatalyst Film. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 1323-1328.	1.4	7
68	Effect of V <sub>2</sub> O <sub>5</sub> doping on microstructure and electrical properties of Bi <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> solid oxide electrolyte system. <i>Ceramics International</i> , 2013, 39, 1711-1716.	4.8	7
69	Fabrication of Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Oxygen Carriers for Chemical Looping Combustion and Hydrogen Generation. <i>Aerosol and Air Quality Research</i> , 2016, 16, 2023-2032.	2.1	7
70	Mechanism of oxygen ion diffusion in Gd-doped ceria electrolyte films deposited via reactive and direct sputtering. <i>Surface and Coatings Technology</i> , 2017, 320, 47-52.	4.8	7
71	Fabrication of in operando, self-growing, core-shell solid electrolyte interphase on LiFePO <sub>4</sub> electrodes for preventing undesirable high-temperature effects in Li-ion batteries. <i>Electrochimica Acta</i> , 2018, 268, 260-267.	5.2	7
72	Reaction Mechanism of the Two-Step MOCVD of Copper Thin Film Using Cu(hfac) <sub>2</sub> ·H <sub>2</sub> O Source. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, G307.	2.2	6

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73	Atmospheric pressure plasma jet fabricating of porous silver electrocatalyst as a promising approach to the creation of cathode layers of low temperature solid oxide fuel cells. <i>Surface and Coatings Technology</i> , 2021, 410, 126810.	4.8	6
74	Superior Stability of Ultrathin and Nanocrystalline TiZrN Films as Diffusion Barriers for Cu Metallization. <i>Nanoscience and Nanotechnology Letters</i> , 2009, 1, 37-41.	0.4	5
75	Material characteristics and electric properties of SiO <sub>x</sub> -doped GDC electrolytes. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2011, 34, 31-38.	1.1	5
76	Improving the Solder Wettability Via Atmospheric Plasma Technology. , 2019, , .		5
77	Reduction of free radicals and endotoxin by conjugated linoleic acid loaded in an in situ-synthesized poly(N-isopropyl acrylamide) thin layer. <i>Journal of Applied Polymer Science</i> , 2009, 113, 3222-3227.	2.6	4
78	Thermal stability, adhesion and electrical studies on (Ti,Zr)N <sub>x</sub> thin films as low resistive diffusion barriers between Cu and Si. <i>Electronic Materials Letters</i> , 2014, 10, 551-556.	2.2	4
79	Sputter-deposited 20 mol% gadolinia-doped ceria films on 8 mol% yttria-stabilized zirconia tapes for improved electrochemical performance. <i>Thin Solid Films</i> , 2016, 618, 202-206.	1.8	4
80	Transparent sapphire substrates with tunable optical properties by decorating with nanometric oxide on porous anodic aluminum oxide patterns. <i>Ceramics International</i> , 2018, 44, 10898-10906.	4.8	4
81	Atmospheric Pressure Tornado Plasma Jet of Polydopamine Coating on Graphite Felt for Improving Electrochemical Performance in Vanadium Redox Flow Batteries. <i>Catalysts</i> , 2021, 11, 627.	3.5	4
82	A Facile Nitriding Approach for Improved Impact Wear of Martensitic Cold-Work Steel Using H <sub>2</sub> /N <sub>2</sub> Mixture Gas in an AC Pulsed Atmospheric Plasma Jet. <i>Coatings</i> , 2021, 11, 1119.	2.6	4
83	Metal-Organic Frameworks Derived Catalyst for High-Performance Vanadium Redox Flow Batteries. <i>Catalysts</i> , 2021, 11, 1188.	3.5	4
84	Functional FAS-13/SiO <sub>x</sub> composite coatings for improved anticorrosion and hydrophobicity/oleophobicity on AZ91D magnesium alloys. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SAAD03.	1.5	3
85	Electroenhanced Metallorganic Chemical Vapor Deposition of Copper Films. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, D51.	2.2	2
86	An electro-enhanced metalorganic chemical vapor deposition technique for producing thin copper films with (hfac)CuI(COD) as a precursor. <i>Microelectronic Engineering</i> , 2009, 86, 47-54.	2.4	2
87	Optimization of Mechanical Properties of UV-cut Polyester Fiber Using a Hybrid Taguchi and Fuzzy Approach. <i>Journal of Engineered Fibers and Fabrics</i> , 2015, 10, 155892501501000.	1.0	2
88	Electrocatalysis enhancement of a screen-printed carbon electrode by modification with trisoctahedral gold nanocrystals for H <sub>2</sub> O <sub>2</sub> and $\langle \text{sc} \rangle \text{NADH} \langle / \text{sc} \rangle$ sensing application. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2460-2467.	3.2	2
89	Feasibility Study of Fe-ti based Oxygen Carriers for Chemical Looping Combustion. <i>Energy Procedia</i> , 2014, 61, 1398-1401.	1.8	1
90	Characteristics of Sputter-deposited Gadolinia-doped Ceria Thin Films on Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> /Si Systems. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2009, 22, 384.	3.7	1

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91	Microwave effect on barium strontium ferrate and co-fired fuel cells. International Journal of Hydrogen Energy, 2018, 43, 13393-13405.	7.1	0
92	Achieving Selective Cleaning on Semiconductors Packaging Using Atmospheric Pressure Plasma. , 2020, , .		0
93	Editorial: The biennial TACT international thin films conference (TACT 2019). Thin Solid Films, 2020, 709, 138210.	1.8	0